Biological and Oceanographic Data from the Harmful Algae Monitoring Program Associated with Salmon Farm Sites on the West Coast of Canada in 2002

N. Haigh, J.N.C. Whyte, and K.L. Sherry

Fisheries and Oceans Canada
Science Branch, Pacific Region
Pacific Biological Station
Nanaimo, BC
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BIOLOGICAL AND OCEANOGRAPHIC DATA FROM THE HARMFUL ALGAE MONITORING PROGRAM ASSOCIATED WITH SALMON FARM SITES ON THE WEST COAST OF CANADA IN 2002

by

N. Haigh, J.N.C. Whyte, and K.L. Sherry

Fisheries and Oceans Canada
Pacific Region
Pacific Biological Station
Nanaimo, British Columbia
V9T 6N7

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ABSTRACT

Haigh, N., Whyte, J.N.C., and Sherry, K.L. 2004. Biological and oceanographic data from the harmful algae monitoring program associated with salmon farm sites on the west coast of Canada in 2002. Can. Data Rep. Fish. Aquat. Sci. 1157: 161 p.

This report presents the results of the fourth year of the Harmful Algae Monitoring Program, which was initiated in 1999 by Fisheries and Oceans Canada in collaboration with the salmon aquaculture industry in British Columbia. Sampling done weekly at farm sites provided data on: phytoplankton species, including those harmful or potentially harmful to finfish; phytoplankton biomass and dominant groups; nutrient (nitrate, phosphate, silicate, and ammonium) levels; and environmental parameters such as temperature, salinity, and dissolved oxygen. In 2002 the sampling period was from May to November, and 13 sites around Vancouver Island were monitored.

RÉSUMÉ

Haigh, N., Whyte, J.N.C., and Sherry, K.L. 2004. Biological and oceanographic data from the harmful algae monitoring program associated with salmon farm sites on the west coast of Canada in 2002. Can. Data Rep. Fish. Aquat. Sci. 1157: 161 p.

Ce rapport présente les résultats de la quatrième année du programme de surveillance des algues toxiques, lequel a été initié en 1999 par Pêches et Océans Canada en collaboration avec l'industrie aquicole de la Colombie Britannique. Un échantillonnage hebdomadaire aux sites de mariculture a fourni des données sur la composition des espèces phytoplanctoniques, incluant les algues toxiques ou potentiellement nocives aux poissons, ainsi que sur la biomasse phytoplanctonique et les groupes dominants, les niveaux des sels nutritifs (nitrate, phosphate, silicate, ammonium), et les paramètres environnementaux tels la température, salinité, et l'oxygène dissous. En 2002, la période d'échantillonnage était de mai à novembre, et 13 sites autour de l'île de Vancouver ont été échantillonnés.

ACKNOWLEDGEMENTS

The Harmful Algae Monitoring Program was funded by the salmon aquaculture industry in British Columbia. In 2002 companies contributing to the program were Stolt Sea Farm, Pacific National Aquaculture, Marine Harvest Canada, Heritage Aquaculture, Creative Salmon, Target Marine Products, and Grieg Seafood BC Ltd. We would like to acknowledge this support, and the efforts of company personnel who helped to keep the program running. We would also like to thank the farm personnel who carried out the sampling at the monitoring sites and who communicated with us in the instances of harmful algal blooms at salmon aquaculture operations around the coast of British Columbia.

INTRODUCTION

The Harmful Algae Monitoring Program (HAMP) was started in the summer of 1999 with the motivation of Terry Nielsen and Darrell Volker of Pacific Aqua Salmon Farmers (PASF), in co-operation with Dr J. N. C. (Ian) Whyte of Fisheries and Oceans Canada and Nicky Haigh. In the fourth year of the program, 2002, seven farm companies took part in the program, with 13 sites around Vancouver Island sampled weekly from mid-May to the end of November. Figure 1 shows the HAMP sampling sites for 2002.

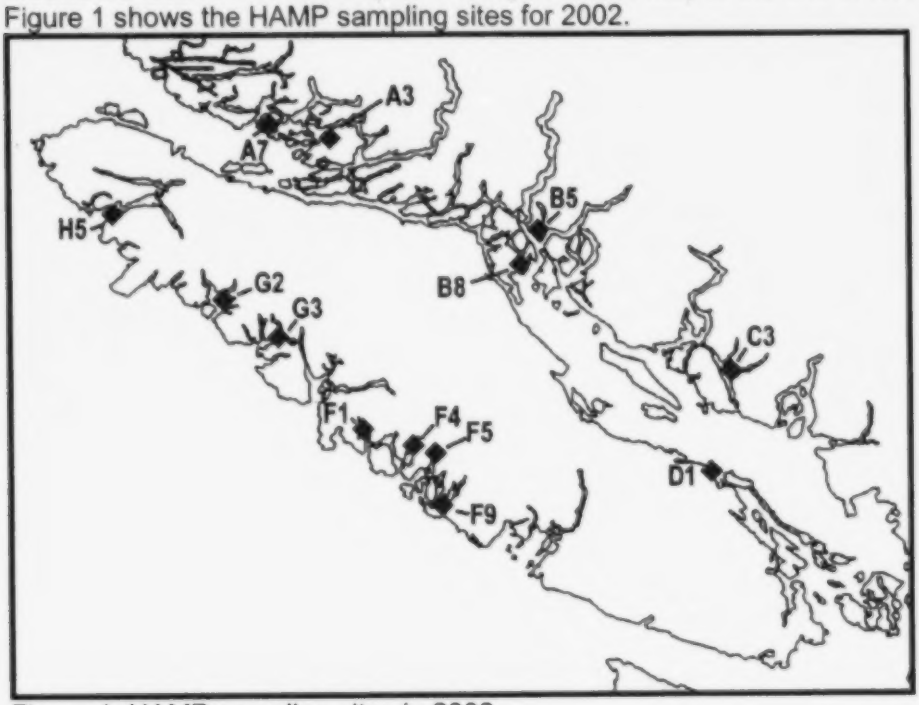

Figure 1: HAMP sampling sites in 2002.

A3	Viner Sound	D1	Departure Bay	G2	Charlie's Place
A7	Greenway Sound	F1	Pretty Girl Cove	G3	Cliff Cove
B5	Raza Island	F4	Gibson Cove	H5	Koskimo Bay
B8	Conville Bay	F5	Bedwell Sound		
C3	Kunechin Point	F9	Indian Bay		

This report summarises in tables, figures and graphs the data for the HAMP sample collected in 2002. Tables present the results of sample analyses for phytoplankton species, dominant species name and counts, estimated total phytoplankton biomass, and percentage of sample biomass in five constituent groups: diatoms, dinoflagellates, raphidophytes, other flagellates, and microzooplankton. The concentration of algal species that are harmful or potentially harmful to fish are illustrated in figures for each site monitored. For sites where environmental data has been provided by the farm companies, graphs of water temperature, salinity, dissolved oxygen (DO), and sigma-T are

presented collectively as a figure for each site. Similarly, water nutrient parameters as concentrations of silicate, phosphate, ammonium, and nitrate are graphically illustrated for sites where samples were collected in 2002 (Kunechin Point and Charlie's Place).

MATERIALS AND METHODS

PLANKTON SAMPLE COLLECTION

Samples for analyses were collected weekly by farm site personnel. Discrete 100 mL water samples were collected, usually using home-made sampling bottles, from 1m, 5m, and 10 metre depths, and were preserved with Lugol's iodine solution. Samples were then forwarded by courier to the Pacific Biological Station (PBS) in Nanaimo.

PLANKTON SAMPLE ANALYSIS

Plankton sample were analysed usually on the day water samples were received. Samples were resuspended by mixing gently, and a 1 mL aliquot was pipetted into a plastic Sedgewick Rafter cell and allowed to settle for at least five minutes. The whole rafter slide was scanned using a Leitz Wetzlas Dialux microscope: the first 20% of the slide was examined at 100X magnification, and the remainder at 40X, shifting up to 100X when necessary to aid identification of species. All species were identified to highest practicable level, and registered on data sheets. Non-harmful or difficult to differentiate species were sometimes grouped into genus or type (e.g. Thalassiosira species as diatoms were grouped together, and gymnodinioid type dinoflagellates were grouped together). In the data sheets each species in the genus or group were given a mark in the corresponding box. If harmful species were present in the sample a count was made of those species (see "Counting Technique"). The dominant species or group in each sample was identified and counted. Total biomass in the sample was estimated on a scale of 1(very low) to 5 (very high). Proportion of total biomass in each of five groups (diatoms, dinoflagellates, raphidophytes, other flagellates, and microzooplankton) was approximated. Analysis of each sample usually took 20-40 minutes.

COUNTING TECHNIQUE

Counts of algae were either "approximate counts" (indicated by a tilde before the number, e.g. ~20) or "more accurate counts". For more accurate counts at least 100 cells of the species or group in question were counted. Plankton tends to settle non-randomly in Sedgewick Rafter cells, with greater accumulations around the edges than in the middle of the slide, so more accurate counts were usually done across the middle section of the slide, including a balance of edge and middle squares. Enumeration of harmful algal species often produced approximate counts, as levels were generally less than 100 cells/mL except

during blooms, and analysis time constraints usually made it impracticable to count the alga in more than a few rows of the slides.

ENVIRONMENTAL MONITORING

Data sheets for environmental monitoring were provided to the HAMP participant companies. These sheets were to be completed with water temperature, salinity, dissolved oxygen, and other environmental data for the sampling depths at the time and place HAMP samples were taken. This data was then to be sent to PBS for compilation and archiving. This data collection was done to varying degrees by different farm companies and at different sampling sites.

NUTRIENT SAMPLE COLLECTION AND ANALYSIS

Certain HAMP sites were selected for nutrient sampling based on siting and company participation; this sampling was done concurrent with that for phytoplankton analysis. Particulate matter was filtered out using Fisherbrand G4 microfibre filters (1.2 µm particle retention size) in Swinnex holders attached to 60 mL plastic syringes; filtrate was frozen in 30 mL acid-washed HDPE Nalgene bottles for later analysis. At the end of the sampling season, all collected and preserved samples were analysed for nitrate (including nitrite), ammonium, phosphate, and silicate concentrations using a Technicon AutoAnalyzer.

RESULTS FROM SAMPLES COLLECTED DURING 2002

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Table 1 : Diatoms in Greenway Sound samples.

date	16-Apr			26-Apr			03-May			13-May			19-May			26-May			11-Jun			21-Jun			25-Jun			04-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																							1	1					1	
Actinoptychus sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.															1															
Campylosira/Plagiogramma																1	1		1	1	1	1	1	1					1	
Cerautalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	1		1					1	2	4	2		2	5	3	4	4	4	1	2	4	3	5	4		2	2		1	
Corethron hystrix														1	1								1							
Coscinodiscus sp.																														
Cylindrotheca closterium								1					1		1	1	1					1	1	1						
Dactylisolen sp.														1	1															
Detonula pumila																	1					1								
Ditylum brightwellii																														
Eucampia zoodiacus																														
Fragilaria sp.																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata													1					1	1	1	1	1		1	1	1	1		1	1
Leptocylindrus danicus																														
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.												1		1	1		1						2	1	1	1		1	1	
Navicula sp.													1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nitzschioid sp.			1					1	1														1			1	1			
Pleurosigma/ Gyrosigma sp.																			1			1	1	1		1	1		1	
Rhizosolenia setigera																											1			
Rhizosolenia sp. (pointy)	1										1					1														
Rhizosolenia sp. (blunt)								1																						
Rhizosolenia stolterfothii										1																				
Skeletonema costatum	1		1							1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.															1	1	1	1	1	1	1			1	1	1		1		1
Thalassionema sp.	1	1					1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Thalassiosira sp.	1	1	1	1	1	1	1	2	2	2	3	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1

Table 1 cont'd

date	08-Jul			23-Jul			06-Aug			12-Aug			20-Aug			26-Aug			16-Sep			22-Sep			16-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																											
Achnanthes sp.																											
Actinoptychus sp.					1				1											1	1						
Amphiproral Tropidoneis																								1	1	1	1
Asterionella japonica																											
Bacteriastrum sp.																											
Biddulphia sp.																											
Campylosiral Plagiogramma																								1			
Cerautalina sp.										1	1			1	1		1		1								
Chaetoceros concavicorne																											
Chaetoceros convolutus																											
Chaetoceros sp.	3			4	4	3	1	2	2	6	3	3	3	2	2	8	4	1	6	6	5	7	7	5	10	10	9
Corethron hystrix								1			2		1			1	2	2		2	1			1		1	1
Coscinodiscus sp.																											
Cylindrotheca closterium					1	1			1		1				1		1		1			1	1	1		1	
Dactyliolen sp.															1	1	1										
Detonula pumila																											
Dityium brightwellii	1			1	1	1				1		1	1	1	1	1	1		1	1		1	1	1	1	1	1
Eucampia zoodiacus																1	1	1									
Fragilaria sp.																											
Grammatophora sp.																											
Hemialus sp.																											
Lauderia annulata																											1
Leptocylindrus danicus	1	1	1	1	1	1					1			1	1	1	1		1	1	1					1	
Leptocylindrus minimus														1	1												
Licmophora sp.																											
Melosira sp.																			1	1	1	1			1	1	1
Navicula sp.				1	1	1				1	1		1			1			1	1	1	1		1	1		1
Nitzschioid sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
Pleurosigmal Gyrosigma sp.						1			1				1			1											
Rhizosolenia setigera	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rhizosolenia sp. (pointy)																				1		1	1		1		
Rhizosolenia sp. (blunt)																			1								
Rhizosolenia stolterfothii																											
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																											
Thalassionema sp.	1	1		1	1	1			1		1								1	1			1	1		1	
Thalassiosira sp.	1	1	1	1	2	2	1	1	1	2	3	2	1	2	2	1	1	2	2	1		2	1		2	2	2

Table 2 : Dinoflagellates in Greenway Sound samples.

date	16-Apr			26-Apr			03-May			13-May			19-May			26-May			11-Jun			21-Jun			25-Jun			04-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.				1	1	1	1	1	1	1	1	1		1	1							1	2			1	1		1	
Amphidinium sp.								1			1																			
Ceratium divericatum																														
Ceratium furca																							1							1
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																1			1				1					1		1
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.														1	1															
Gymnodinioid sp.	3	3	3	3		1	3	2	2	5	5	7	5	3	4	5	5	3	4	2	1	5	7	5	4	6	4	5	5	5
Gymnodinium galatheanum																														
Gyrodinium spirale-type			1				1	1		2	2	3	1	2	2		2						1	2		1	2		1	1
Heterocapsa triquetra								1			1			1						1	1	1	1		1		1	1	1	1
Noctiluca scintillans														1			1			1		1	1	1		1		1		
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.	1													1																
Protoperidinioid sp.		1		2	1	1	2	1	1	3	8	7	5	7	5	1	2	2	1	1		1	5	3		3	1	4	1	3
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo			1																											

Table 2 cont'd

date	08-Jul			23-Jul			06-Aug			12-Aug			20-Aug			26-Aug			16-Sep			22-Sep			16-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																											
Alexandrium sp.																											
Amphidinium sp.					1	1			1													1				1	1
Ceratium divericatum																											
Ceratium furca																											
Ceratium fusus		1	1		1	1		1	1		1			1			1										
Ceratium lineatum																											
Ceratium sp.					1			1					1				1										
Cochlodinium polykrikoides																			1								
Cochlodinium sp.																			1	1							
Dinophysioid sp.	1			1				1					1	1								1					1
Diplopsalis sp.																											
Gonyaulacoid sp.																				1							
Gymnodinioid sp.	7	1		4	7	3	4	8	7	8	8	7	9	8	7	6	9	9	8	8	3	4	4	5	4	4	2
Gymnodinium galatheanum																											
Gyrodinium spirale-type		1		1	2			1		1		2	1			1									1	2	1
Heterocapsa triquetra	1	1	1	1	1	1		1	1	1	1	1				1						1			1		
Noctiluca scintillans						1		1						1						1		1					
Noctilucoid sp.																											
Oxyrrhis marina																											
Oxyphysis oxytoxoides								1									1			1							
Polykrikos sp.																											
Prorocentrum gracile	1			1			1			1	1	1	1	1		1	1		1			1		1	1		
Prorocentrum micans																											
Prorocentrum sp.																											
Protoperidinioid sp.	2	2		2	7	6	2	7	2	8	5	3	3	7	4	4	10	9	5	4	1	3	2		4	5	
Pyrocystis lunula																											
Raphidophytes																											
Heterosigma akashiwo										1	1					1	1										

Table 3 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Greenway Sound samples.

date	16-Apr			26-Apr			03-May			13-May			19-May			26-May			11-Jun			21-Jun			25-Jun			04-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																												1		
Dictyocha speculum																		1		1										
Dinobryon balticum																												1		
Ebria tripartita																1														
Euglenoid																1				1	1							1		1
Phaeocystis pouchetii																														
unid. Nanoflagellates	4	2	2	2	3	3	4	4	4	3	3	2	3	4	3	2	2	1	4	3	3	6	5	3	6	5	4	3	5	4
Zooplankton																														
Amoebae																														
Appendicularian																														
Barnacle nauplius																														
Ciliate	5	1	2	2	2	3	5	5	1		5	5	7	5	6	1	1		2		1	3	7	5	7	1	6	7	4	3
Copepod																														
Nauplius						1																1								
Pluteus																														
Radiolarians																														
Rotifer											1																			
Tintinnid																2	2											1		
Zoea																														
other																														
Dominant Species/Group																														
name	ciliates	*Thalassiosira sp.*	*Thalassiosira sp.*	*Alexandrium tamarense*	*Alexandrium tamarense*	dinoflagellates	*Thalassiosira nordenskioeldi*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Skeletonema costatum*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	~20	~30	~30	~7	~4	~7	~300	~280	~150	5000	~220	~100	9000	~1400	~1100	11000	5000	2400	1600	2000	1100	1300	~220	~200	3800	~700	~300	7000	1300	1600
% constituent	100	100	110	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	105	100	100	100
Diatoms	35	60	70	10	10	20	65	70	65	90	55	35	80	50	45	85	90	95	90	85	87	80	65	80	60	70	55	70	55	60
Dinoflagellates	24	30	20	60	60	40	25	20	32	9	35	55	10	40	40	5	7	4	4	10	5	10	20	10	20	22	20	10	30	30
Raphidophytes	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	5	6	5	10	10	2	1	1	1	1	1	1	1	1	1	1	1	3	5	5	5	5	2	5	5	5	5	5	5
Zooplankton	40	5	10	25	20	30	8	9	2	0	9	9	9	9	14	9	2	0	3	0	3	5	10	8	15	3	25	15	10	5
Biomass	2.0	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	3.5	3.0	2.5	4.0	4.0	3.0	4.0	3.5	3.0	3.0	3.5	3.0	3.0	3.5	2.5	3.0	2.5	2.5	3.5	3.0	3.0

Table 3 cont'd

date	08-Jul			23-Jul			06-Aug			12-Aug			20-Aug			26-Aug			16-Sep			22-Sep			16-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																											
Cryptomonads				1	1								1						1	1							
Dictyocha speculum										1	1		1	1						1		1				1	
Dinobryon balticum																											
Ebria tripartita																1									1		
Euglenoid		1								1	1						1										
Phaeocystis pouchetii																											
unid. Nanoflagellates	5	4	4	3	4	2	5	7	6	2	4	4	3	3	3	3	5	2	2	3	4	1	4	3	3	4	3
Zooplankton																											
Amoebae											1																
Appendicularian																											
Barnacle nauplius																											
Ciliate	6	4	3	5	2	1	3	4	3	9	3	6	2	5	4	4	5	2	6	2	2	3	2	1	7	5	1
Copepod																											
Nauplius		1						1										1			1						
Pluteus																											
Radiolarians					1																						
Rotifer	1									1																	
Tintinnid	1			2	1	1				1		1				1	1		2						2		
Zoea																											
other																											
Dominant Species/Group																											
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Rhizosolenia setigera*	*Ceratium fusus*	*Rhizosolenia setigera*	*Skeletonema costatum*	*Rhizosolenia setigera*	*Skeletonema costatum*	*Rhizosolenia setigera*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*
count (cells/mL)	8000	1600	~800	3600	11000	5100	~39	~10	~200	3000	~240	~800	3200	2000	~270	1300	770	1800	3000	7200	1100	10000	3300	2300	2100	3400	1300
% constituent	100	100	100	100	100	10	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	60	75	80	90	85	90	95	45	50	70	70	70	93	55	75	95	70	80	60	70	90	85	85	90	85	90	90
Dinoflagellates	30	18	15	5	12	8	2	50	43	15	15	15	5	40	18	3	20	18	20	20	5	10	10	6	5	5	5
Raphidophytes	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	2	2	1	1	1	1	2	2	2	5	5	1	1	2	1	3	1	2	5	1	1	2	1	1	1	1
Zooplankton	8	5	3	4	2	1	2	3	5	12	10	10	1	4	5	1	7	1	18	5	4	4	3	3	9	4	4
Biomass	4.0	3.0	3.0	4.0	4.5	3.5	3.5	3.5	3.0	4.0	3.5	3.0	4.5	3.5	2.5	4.5	4.0	3.5	4.0	4.0	3.0	4.0	2.5	2.5	3.5	3.0	2.5

Table 4 : Diatoms in Viner Sound samples.

date	21-May			29-May			04-Jun			11-Jun			18-Jun			25-Jun			02-Jul			10-Jul			16-Jul			23-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Actinoptychus sp.																									1		1			
Amphiproral Tropidoneis																														
Asterionella japonica	1																													
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosiral Plagiogramma																														
Cerautalina sp.					1					1		1		1								1	1		1			1	1	
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	5	7	9	5	6	6	6	8	5	4	3	3	4	7	4	4	2	1				1	1		2		1	1	3	1
Corethron hystrix																														
Coscinodiscus sp.		1	1																1			1							1	
Cylindrotheca closterium				1	1	1		1		1		1			1	1														
Dactyliosolen sp.																														
Detonula pumila																														
Ditylum brightwellii										1																				
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1	1	1		1		1	1	1		1						1			1	1	1	1	1	1			
Leptocylindrus minimus																														
Licmophora sp.																														
Melosira sp.																														
Navicula sp.	2	1	2	2	1	1	1	1		1	1	1	1	2	1	1	1				1		1							
Nitzschioid sp.	1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	1	1	1	
Pleurosigma/ Gyrosigma sp.			1					1											1			1	1	1	1	1	1			1
Rhizosolenia setigera													1	1			1		1			1	1	1						
Rhizosolenia sp. (pointy)																									1					1
Rhizosolenia sp. (blunt)	1	1	1					1								1														
Rhizosolenia stolterfothii											1																			
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1		1	1	1	1	1	1	1	1	1
Stephanopyxis sp.			1																											
Thalassionema sp.	1	1	1	1	1	1	1	1		1		1	1						1			1	1		1	1	1	1	1	
Thalassiosira sp.	2	2	2	1	2	2	3	3	2	1	1	1	1		1	2		1	1			2	2	1	1	1	1	1		1

Table 4 cont'd

date	30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep			01-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Actinoptychus sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.		1																												
Campylosira/Plagiogramma																														
Cerautalina sp.		1	1	1	1	1			1					1			1													
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.		3	1	1	2	3		2					5	6	6	9	8	5		6	7	9	7	4	7	6	4	6		3
Corethron hystrix															1															
Coscinodiscus sp.										1							1										1			
Cylindrotheca closterium						1																								
Dactylisolen sp.																														
Detonula pumila																	1													
Ditylum brightwellii																	1													
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus															1					1										
Leptocylindrus minimus																						1	1	1				1		
Licmophora sp.																														
Melosira sp.																														
Navicula sp.					1	1								1		1	1			1	1		1		1			1		
Nitzschioid sp.				1	1							1	1		2	1	1	1	1											
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																												1		
Rhizosolenia sp. (blunt)		1														1														
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1	1	1	1		1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																														
Thalassionema sp.		1				1			1						1	1	1					1						1		
Thalassiosira sp.	1		1	1	1	1		2			1		1		1		1			1		1	1		1			1		

Table 4 cont'd

date	08-Oct			15-Oct			22-Oct			29-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms												
Achnanthes sp.												
Actinoptychus sp.												
Amphiprora/ Tropidoneis												
Asterionella japonica												
Bacteriastrum sp.												
Biddulphia sp.												
Campylosira/Plagiogramma												
Cerautalina sp.												
Chaetoceros concavicorne												
Chaetoceros convolutus												
Chaetoceros sp.		1		2								
Corethron hystrix												
Coscinodiscus sp.		1					1	1				1
Cylindrotheca closterium												
Dactylisolen sp.												
Detonula pumila												
Ditylum brightwellii	1											
Eucampia zoodiacus												
Grammatophora sp.												
Hemialus sp.												
Lauderia annulata												
Leptocylindrus danicus												
Leptocylindrus minimus	1	1										
Licmophora sp.												
Melosira sp.												
Navicula sp.												
Nitzschioid sp.					1			1				
Pleurosigma/ Gyrosigma sp.												
Rhizosolenia setigera												
Rhizosolenia sp. (pointy)												
Rhizosolenia sp. (blunt)						1						
Rhizosolenia stolterfothii												
Skeletonema costatum	1	1	1	1	1	1						
Stephanopyxis sp.												
Thalassionema sp.												
Thalassiosira sp.												1

Table 5 : Dinoflagellates in Viner Sound samples.

date	21-May			29-May			04-Jun			11-Jun			18-Jun			25-Jun			02-Jul			10-Jul			16-Jul			23-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.								1	1		1			2	1															
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.																														
Cochlodinium sp.																														
Cochlodinium polykrikoides																									1					
Dinophysioid sp.		1								1				1					2				2			1			2	
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	1		3	1	3	2	2	2	1	5	2		5	1	4	3	1	4	3	1	1	6	5	3	7	3	1	10	6	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type					1		1	1		1												1	2	1				2	3	1
Heterocapsa triquetra																			1			1	1		1	1		1	1	
Noctiluca scintillans										1	1		1												1			1		
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																						1	1		1	1	1	1		
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	4	4	2	2	1	1	2		1	4	2	2	2	2	3				3	1		4	1		5	3	1	6	2	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 5 cont'd

date	30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep			01-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																	1													
Ceratium fusus																														
Ceratium lineatum																														
Ceratium sp.		1						1																						
Cochlodinium sp.																														
Cochlodinium polykrikoides	1																					1			1					
Dinophysioid sp.	1	1		1						2																				
Diplopsalis sp.																														
Gonyaulacoid sp.	1																								1					
Gymnodinioid sp.	4	5	2	5	3			5		1		1	2	2	1	1		1		5	3	3	2	1	4	1		3	1	
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1		2												1		1			1		2			1					
Heterocapsa triquetra	1	1											1																	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyphysis oxytoxoides	1																													
Oxyrrhis marina																														
Oxytoxum sp.																										1				
Polykrikos sp.																														
Prorocentrum gracile	1	1		1	1					1			1												1					
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.	3	8	4	2	1					4	2				1	2					1	2				1		5		
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 5 cont'd

date	08-Oct			15-Oct			22-Oct			29-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates												
Alexandrium sp.												
Amphidinium sp.												
Ceratium divericatum												
Ceratium furca												
Ceratium fusus												
Ceratium lineatum												
Ceratium sp.												
Cochlodinium sp.												
Cochlodinium polykrikoides												
Dinophysioid sp.				1				1				
Diplopsalis sp.												
Gonyaulacoid sp.												
Gymnodinioid sp.				3		2	2	1		4	1	1
Gymnodinium galatheanum												
Gyrodinium spirale-type												
Heterocapsa triquetra				1								
Noctiluca scintillans												
Noctilucoid sp.												
Oxyphysis oxytoxoides												
Oxyrrhis marina												
Oxytoxum sp.												
Polykrikos sp.												
Prorocentrum gracile												
Prorocentrum micans												
Prorocentrum minimum												
Prorocentrum sp.												
Protoperidinioid sp.				1						2		
Pyrocystis lunula												
Raphidophytes												
Heterosigma akashiwo												

Table 6 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Viner Sound samples.

date	21-May			29-May			04-Jun			11-Jun			18-Jun			25-Jun			02-Jul			10-Jul			16-Jul			23-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																			1									1	1	1
Dictyocha speculum				1			1			1	1		1	1	1	1			1	1										
Dinobryon balticum																												1		
Ebria tripartita										1	1		1						1	1		1								
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	1	1	2	2	3	2	3	1	2	5	4	3	4	5	3	3	1	2	3	2	2	3	3	3	2	3	2	4	4	3
Zooplankton																												1		
Appendicularian		1						1																				6	4	2
Ciliate	1		1	2			1			3		2	2	2	2	4	4	1	5	3	2	5	4	4	1	2				
Copepod							1												1											
Nauplius	1									1	1																			
Pluteus																									1			1		
Rotifer																						1			2	1		1		
Tintinnid							1			1				1																
Zoea												1																		
other																														
Dominant Species/Group																														
name	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	*Skeletonema costatum*	*Thalassiosira nordenskioeld*	*Thalassiosira nordenskioeld*	euglenoid sp.	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	ciliates	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	~210	~320	~220	~300	~210	~270	~600	~600	~160	1000	~220	~20	~480	1000	~300	~100	~30	~20	~60	~5	~3	13000	8000	~500	12000	10000	1800	6900	8100	2700
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	93	95	90	93	95	95	93	95	90	75	88	75	45	65	60	70	85	75	40	20	20	94	92	90	95	90	90	85	91	94
Dinoflagellates	5	3	8	3	4	4	3	3	9	10	5	10	25	15	20	20	5	21	20	20	20	3	5	5	3	8	9	10	5	3
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	2	1	1	1	1	1	10	5	5	25	10	10	3	1	1	10	20	20	1	1	1	1	1	1	1	1	1
Zooplankton	1	1	1	2	0	0	3	1	0	5	2	10	5	10	10	7	9	3	30	40	40	2	2	4	1	1	0	4	3	2
Biomass	3.5	4.0	3.5	3.0	3.0	3.0	4.0	4.0	3.0	3.5	3.0	2.0	2.5	2.5	2.0	3.0	2.0	2.0	3.0	1.5	1.0	4.5	4.5	3.0	4.0	4.0	3.0	4.0	4.0	3.5

Table 6 cont'd

date	30-Jul			06-Aug			13-Aug			20-Aug			27-Aug			03-Sep			10-Sep			17-Sep			24-Sep			01-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads	1	1								1		1										1								
Dictyocha speculum		1		1	1		1	1		1	1		1	1							1	1			1				
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid	1																													
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	2	2	2	2	2	3	4	2	5	3	3	3	3	5	3	3	2	2	3	4	2	2	3	4	2	2	3	2	2
Zooplankton																														
Appendicularian																														
Ciliate	3	3	3	1	4	1	2	3	2	4	4		2	3					4	4	3	4			5	3	2	2		1
Copepod	1									1																				
Nauplius	1					1				1					1					1					1			1		
Pluteus																									1					
Rotifer		1		1													1								1					
Tintinnid	1	1	1			1					1			1																
Zoea																						1								
other																														
Dominant Species/Group																														
name	*Prorocentrum gracile*	*Skeletonema costatum*	*Skeletonema costatum*	*Prorocentrum gracile*	*Skeletonema costatum*	*Skeletonema costatum*	*Dictyocha speculum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Dictyocha speculum*	*Dictyocha speculum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	~24	1900	10000	~10	~500	2800	~8	~30	~40	~80	~35	~15	3300	1200	~60	1900	~400	~100	650	2500	3000	38000	2800	850	27000	5000	2800	11000	~900	1100
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	10	70	85	50	90	97	0	30	60	26	5	60	80	85	70	90	90	85	70	80	80	85	95	90	75	85	95	90	95	95
Dinoflagellates	60	17	10	40	5	0	0	30	0	20	10	20	10	5	10	8	6	10	0	9	10	7	3	5	4	4	0	6	4	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	3	1	2	1	1	50	25	10	26	70	20	5	5	10	2	2	5	5	1	2	3	2	5	1	1	1	1	1	1
Zooplankton	20	10	4	8	4	2	50	15	30	28	15	0	5	5	10	0	2	0	25	10	8	5	0	0	20	10	4	3	0	4
Biomass	2.5	4.0	4.0	2.0	2.5	3.5	1.5	1.5	1.5	2.5	1.5	1.0	3.0	3.0	2.0	3.0	3.0	1.5	2.5	3.0	3.0	4.5	3.0	2.0	4.5	3.0	2.5	4.0	2.0	2.5

Table 6 cont'd

date	08-Oct			15-Oct			22-Oct			29-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates												
Cryptomonads												
Dictyocha speculum				1				1		1		
Dinobryon balticum												
Ebria tripartita												
Euglenoid												
Phaeocystis pouchetii												
Radiolarian												
unid. Nanoflagellates	1	1	1	3	2	1	3	3	3	3	2	3
Zooplankton												
Appendicularian												
Ciliate	1	2	2	4		1		4	2	1	3	
Copepod												
Nauplius												
Pluteus												
Rotifer												
Tintinnid												
Zoea												
other												
Dominant Species/Group												
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Coscinodiscus sp.*	*Coscinodiscus sp.*	ciliates	dinoflagellates	ciliates	diatoms
count (cells/mL)	~30	~30	~100	~30	~20	~30	~1	~1	~3	~6	~3	~6
% constituent	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	85	85	30	80	50	60	40	0	0	0	90
Dinoflagellates	0	0	0	30	0	30	30	20	0	60	30	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	5	10	20	5	10	10	30	10	10	5
Zooplankton	10	10	10	30	0	15	0	30	70	30	60	0
Biomass	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.5	1.0	1.0	1.0	1.5

Table 7 : Diatoms in Raza Island samples.

date	01-May			08-May			15-May			22-May			29-May			05-Jun			12-Jun			19-Jun			26-Jun			03-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Asteromphalus sp.																														
Bacteriastrum sp.																														
Biddulphia sp.																										1				
Campylosira/Plagiogramma							1			1																				
Cerautalina sp.																1			1	1	1									
Chaetoceros concavicorne																														
Chaetoceros convolutus		1	1			1									1			1												
Chaetoceros sp.	2	5	2	3	3	3	1		1	1	1	2	4	5	5				3	1	1		1	3						
Corethron hystrix																														
Coscinodiscus sp.																				1			1	1						
Cylindrotheca closterium																	1		1	1	1		1	1					1	
Dactyliosolen sp.																														
Detonula pumila																														
Ditylum brightwellii																								1						
Eucampia zoodiacus				1																										
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus								1			1				1				1											
Leptocylindrus minimus																														
Licmophora sp.																								1						
Melosira sp.																														
Navicula sp.	2	1		1		1			1				1		1				1	1				1						
Nitzschioid sp.						1					1		1		1		1	1	1	1	1		1	1			1			
Pleurosigma/ Gyrosigma sp.																				1										
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)					1	1																								
Rhizosolenia stolterfothii									1																					
Skeletonema costatum		1		1											1				1	1	1		1					1	1	1
Stephanopyxis sp.																														
Thalassionema sp.					1												1		1		1			1						
Thalassiosira sp.	2	1	1	1	2	2	1	1	1			1			1				1		1		1	1			1			

Table 7 cont'd

date	10-Jul			17-Jul			24-Jul			31-Jul			07-Aug			14-Aug			21-Aug			28-Aug			04-Sep			11-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Asteromphalus sp.																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.																							1							
Chaetoceros concavicorne																			1		1	1	1							
Chaetoceros convolutus										1	1			1	1	1	1	1	1	1	1	1	1	1						
Chaetoceros sp.							2			3	2	3	3	3	3	3	2	3	5	6	3	8	7	6			2			
Corethron hystrix																														
Coscinodiscus sp.														1					1											
Cylindrotheca closterium																							1						1	
Dactylisolen sp.																														
Detonula pumila													1													1	1			
Ditylum brightwellii									1	1	1		1	1	1		1	1	1		1	1	1	1	1		1			
Eucampia zoodiacus																	1	1		1		1	1	1			1			
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																	1			1		1	1				1			
Leptocylindrus minimus																														
Licmophora sp.							1	1								1														
Melosira sp.																			1											
Navicula sp.																1	1		1	1		1	1	1			1			
Nitzschioid sp.												1	1	1					1	1	1	1	1	1		1	2		1	
Pleurosigma/ Gyrosigma sp.																				1			1							
Rhizosolenia setigera														1							1	1		1						
Rhizosolenia sp. (pointy)										1																				
Rhizosolenia sp. (blunt)																			1	1		1	1	1						
Rhizosolenia stolterfothii																														
Skeletonema costatum			1				1			1	1	1	1	1	1	1	1		1		1	1	1	1	1		1			
Stephanopyxis sp.																														
Thalassionema sp.												1																		
Thalassiosira sp.	1									2	2	2	1	1	1	1	1		2	2	2	2	2	3	1	2	2		1	1

Table 7 cont'd

date	17-Sep			25-Sep			02-Oct			07-Oct			14-Oct			21-Oct			28-Oct			03-Nov			11-Nov			17-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																								1						
Asterionella japonica					1								1																	
Asteromphalus sp.											1									1	1									
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																										1	1			
Cerautalina sp.																										1				
Chaetoceros concavicorne					1		1			1	1	1	1				1		1			1								
Chaetoceros convolutus						1			1	1	1				1					1	1		1							
Chaetoceros sp.	2					1	2	2	4	5	4	2	2	2	2	7	3	1	5	4	4	5	6	4		2	2			1
Corethron hystrix							1			1	1	1	1	1	1	1	1	1	1	1	1	1					1			
Coscinodiscus sp.						1			1		1																			
Cylindrotheca closterium						1	1									1								1		1		1		
Dactyliosolen sp.																														
Detonula pumila																														
Ditylum brightwellii											1							1	1	1	1		1	1		1		1		
Eucampia zoodiacus					1																		1							
Grammatophora sp.																											1			
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus								1		1							1					1	1	1		1				
Leptocylindrus minimus																														
Licmophora sp.								1																				1		
Melosira sp.											1			1					1			1		1			1	1		
Navicula sp.																														
Nitzschioid sp.	1		1		1	1		1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1		1	1	1		
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera			1		1			1			1		1			1			1	1	1	1	1	1	1	1	1	1	1	1
Rhizosolenia sp. (pointy)																							1							
Rhizosolenia sp. (blunt)								1			1				1				1			1	1	1						
Rhizosolenia stolterfothii																			1			1	1	1						
Skeletonema costatum						1		1	1		1	1	1		1	1	1	1	1	1	1	1	1	1					1	
Stephanopyxis sp.																								1						1
Thalassionema sp.						1	1	1	1			1		1	1	1			1	1					1	1	1	1	1		1
Thalassiosira sp.		1					2	1	1	1	1	2		1		2	1	1	1	2	2	2	2	3	1		1			

Table 8 : Dinoflagellates in Raza Island samples.

date	01-May			08-May			15-May			22-May			29-May			05-Jun			12-Jun			19-Jun			26-Jun			03-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																1														
Amphidinium sp.																				1								1		
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.								1						1			2		1	1			2	1					1	
Diplopsalis sp.																														
Gonyaulacoid sp.																		1												
Gymnodinioid sp.	4	6	1	3	3	1				5	5	4	7	7	8	3	4	4	5	4	4		3	3	4	7	2	5	2	2
Gymnodinium sanguineum																														
Gyrodinium spirale-type	2		2		2	1				2	1		1	1	1	2	1	2		1								1	1	
Heterocapsa triquetra			1	1						1				1			1	1			1				1	1	1		1	1
Noctiluca scintillans																														
Noctilucoid sp.																									1					
Oxyphysis oxytoxoides																														
Oxymhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																								1						
Protoperidinioid sp.	5	1	2		7	1	3	1	2	3	2		5	4	4	2	4	1	1	2	3		3	3	1		1			1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																									1		1			

Table 8 cont'd

date	10-Jul			17-Jul			24-Jul			31-Jul			07-Aug			14-Aug			21-Aug			28-Aug			04-Sep			11-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.															1									1						
Amphidinium sp.								1																						
Ceratium divericatum																														
Ceratium furca																								1						
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.		1																												
Dinophysioid sp.	1	2			1		1	1		2	2	1		1		1							1							
Diplopsalis sp.																														
Gonyaulacoid sp.							1							1		1			1					1						
Gymnodinioid sp.	3	3	1	2				2		5	3	4	5	6	3	5	4	3	3	1	3	1	4	5	3	3	4	4	2	3
Gymnodinium sanguineum																														
Gyrodinium spirale-type	1	2	1											1		1							1	1			1			
Heterocapsa triquetra			1	1								1		1			1													
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxymhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.				1																										
Protoperidinioid sp.	2	3			1		3	1		3	3	1	3	4	3		2	1		1	1	4	5	5	1		1	1		
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 8 cont'd

date	17-Sep			25-Sep			02-Oct			07-Oct			14-Oct			21-Oct			28-Oct			03-Nov			11-Nov			17-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																1		1	1											
Ceratium divericatum																														
Ceratium furca																					1									
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum															1													1		
Ceratium sp.																														
Cochlodinium polykrikoides																												1		
Cochlodinium sp.																												1		
Dinophysioid sp.									1										1	1		1					1	1		
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.	2	5			5	3	2	1	2	2	1	3	2		1	2	2	1	6	3	3	2	1		5	1	5	2	2	2
Gymnodinium sanguineum																						1								
Gyrodinium spirale-type					1				1	1						1			1	1	1	2			1					
Heterocapsa triquetra																			1		1		1				1			
Noctiluca scintillans																				1										
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																														
Protoperidinioid sp.					3	1			1	2		1		1			1	1		1	3	1		3		1				
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 9 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Raza Island samples.

date	01-May			08-May			15-May			22-May			29-May			05-Jun			12-Jun			19-Jun			26-Jun			03-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																									1	1	1	1	1	
Dictyocha speculum										1		1			1	1	1	1	1		1							1		
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid	1	1	1	1		1																								
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	6	3	2	3	3	2	2	2	4	4	3	4	4	3	4	4	3	4	6	3		3	3	5	3	4	5	4	6
Zooplankton																														
Appendicularian																														
Ciliate	8	7	6	2	3	2	2	1		2	2	4	5	5	3	5	8	6	3	2	3		2	2	4	3	1	5	6	4
Copepod																														
Nauplius				1																										
Pluteus																														
Rotifer																														
Tintinnid		1	2								1					1	1	1	1											
Zoea																														
other																														
Dominant Species/Group																														
name	*Thalassiosira spp.*	*Chaetoceros spp.*	ciliates & tintinnids	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Chaetoceros sp.*	*Thalassiosira sp.*	*Thalassiosira sp.*	dinoflagellates	dinoflagellates	dinoflagellates	dinoflagellates	dinoflagellates	*Pseudonitzschia sp.*	dinoflagellates	*Scrippsiella trochoidea*	dinoflagellates	*Skeletonema costatum*	*Cylindrotheca closterium*	*Heterocapsa triquetra*	no sample	*Dinophysis sp.*	*Licmophora sp.*	*Heterosigma akashiwo*	cryptomonad sp.	cryptomonad sp.	cryptomonad sp.	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	~30	~400	~40	~40	~240	~180	~30	~3	~3	~50	~20	~10	~40	~40	~45	~20	~20	~20	~100	~200	~10		~5	~40	~15	~700	~260	~460	~100	~50
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	55	40	10	65	60	85	45	40	55	10	15	25	20	15	55	10	5	5	60	30	30	30	40	60	0	20	9	10	25	25
Dinoflagellates	20	20	20	20	25	5	30	35	40	70	60	40	40	45	32	40	50	45	20	40	40	20	50	30	20	35	45	30	25	25
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.5	0	0	15	0	1	0	0	0
Other Flagellates	5	15	10	5	5	5	5	5	5	10	10	10	5	5	3	20	5	15	10	20	15	20	5	5	30	35	40	40	25	25
Zooplankton	20	25	60	10	10	5	20	20	0	10	15	25	35	35	10	30	40	35	10	10	15	22.5	5	5	35	10	5	20	25	25
Biomass	2.0	2.5	2.0	2.0	2.0	2.0	1.5	1.0	1.0	2.0	2.0	1.5	2.0	2.0	3.0	2.0	2.5	2.0	2.0	2.0	2.0	1.8	1.5	1.5	1.5	1.5	1.5	2.0	2.0	1.5

Table 9 cont'd

date	10-Jul			17-Jul			24-Jul			31-Jul			07-Aug			14-Aug			21-Aug			28-Aug			04-Sep			11-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads	1										1								1	1										
Dictyocha speculum	1	1	1	1	1	1	1	1	1	1	1	1				1							1	1					1	
Dinobryon balticum																														
Ebria tripartita			1			1												1												
Euglenoid												1																		
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	3	2	2	2	2	4	2	4	4	3	3	4	5	4	5	3	3	2	2	3	2	2	2	4	3	4	4	4
Zooplankton																														
Appendicularian																														
Ciliate	2	5	4			1		4	2	1	1	3	1	3	7	4	4	6	5	3	2		2	1	3		2	2	2	2	2
Copepod																														
Nauplius				1							1											1								
Pluteus																														
Rotifer							1													1										
Tintinnid		1		2	1	1		1	1	1	2	2	1	3					1					1				1		
Zoea																														
other																								1						
Dominant Species/Group																														
name	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	dinoflagellates	*Dictyocha speculum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Skeletonema costatum*	*Chaetoceros convolutus*	*Skeletonema costatum*	*Dictyum brightwellii*	Nitzschioid sp.	*Dictyum brightwellii*	ciliates	*Dictyocha speculum*	*Thalassiosira* sp.
count (cells/mL)	~150	~520	~16	~7	~85	~35	~15	~10	~15	10,000	3600	2900	11,000	8000	~800	1400	~180	~180	~36	~58	~28	600	~38	~800	~1	~6	~3	~5	~3	~2
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	5	0	10	0	0	0	30	10	20	75	65	80	85	65	60	70	70	90	85	85	95	90	80	75	68	85	85	0	30	25
Dinoflagellates	15	10	20	40	5	0	25	45	0	23	25	16	5	20	25	20	15	3	5	5	4	7	16	18	30	5	10	40	5	25
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	70	80	40	40	55	80	15	10	50	1	1	1	1	1	5	5	5	2	5	5	1	1	2	2	2	5	1	20	35	25
Zooplankton	10	10	30	20	40	20	30	35	30	1	9	3	9	14	10	5	10	5	5	5	0	2	2	5	0	5	4	40	30	25
Biomass	3.0	3.5	2.0	1.5	2.0	1.5	2.0	1.5	1.5	3.5	2.5	3.5	4.0	3.5	2.0	3.0	2.5	2.5	2.5	2.5	2.0	3.0	3.0	3.0	1.5	2.0	3.0	1.5	2.0	1.0

Table 9 cont'd

date	17-Sep			25-Sep			02-Oct			07-Oct			14-Oct			21-Oct			28-Oct			03-Nov			11-Nov			17-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads					1	1																								
Dictyocha speculum		1			1	1	1	1	1	1	1	1	1		1			1		1							1		1	1
Dinobryon balticum																														
Ebria tripartita																												1		
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	3	4		5	3	3	2	3	1	2	4	3	2	2	3	3	2	3	2	3	2	2	3	3	5	2	2	3	2
Zooplankton																														
Appendicularian																														
Ciliate	6	5	5		7	3	3	3	6	2	2	4				3	1	2	5	4	3	1	2	4	3	2	1	2	1	1
Copepod																														
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid									2	1			2	2	1		1													
Zoea																														
other																														
Dominant Species/Group																														
name	ciliates	ciliates	ciliates	no sample	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Chaetoceros concavicorne*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Corethron hystrix*	*Corethron hystrix*	*Corethron hystrix*	*Corethron hystrix*	*Corethron hystrix*	*Corethron hystrix*	*Skeletonema costatum*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Pseudonitzschia sp.*	dinoflagellates	*Chaetoceros concavicorne*	*Thalassionema nitzschioides*	*Cylindrotheca closterium*	*Dictyocha speculum*	diatoms
count (cells/mL)	~20	~20	~10		~22	~42	~14	~20	~200	~150	~150	~150	~200	~100	~26	~75	~95	~50	~300	~70	~70	~100	~150	~180	~7	~11	~30	~500	~2	~6
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	10	10	20	35	45	70	60	65	55	65	80	70	80	90	90	90	93	90	70	70	70	80	85	75	30	85	80	65	20	50
Dinoflagellates	20	20	0	15	30	10	10	5	10	20	5	5	5	1	5	5	4	5	20	15	20	17	5	15	40	5	15	20	20	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	10	20	7.5	5	5	5	10	5	2	5	5	2	1	2	1	1	1	2	1	1	1	1	1	10	5	2	5	40	20
Zooplankton	60	60	60	42.5	20	15	25	20	30	13	10	20	13	8	3	4	2	4	8	14	9	2	9	9	20	5	3	10	20	10
Biomass	1.5	1.5	1.5	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.0	3.0	3.0	2.0	3.0	2.0	2.0	2.0	2.5	2.5	1.0	1.5	1.5	1.5	1.0	1.0

Table 10 : Diatoms in Conville Bay samples.

date	02-May			09-May			16-May			24-May			30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																				1										
Campylosira/Plagiogramma																														
Cerautalina sp.	1	1	1	1	1				1										1	1								1		
Chaetoceros concavicorne																														
Chaetoceros convolutus	1	1	1	1	1	1								1		1					1									
Chaetoceros sp.	12	11	10	9	10	9				2	2	3	2	2	1				6	8	5									
Corethron hystrix				1	1														2	1	1			1						
Coscinodiscus sp.											1								1	1	1									
Cylindrotheca closterium																				1										
Dactylisolen sp.																														
Detonula pumila	1		1		1																1									
Ditylum brightwellii		1																												
Eucampia zoodiacus			1			1													1		1									
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1			1	1	1	1					1			1															
Leptocylindrus minimus		1																	1	1	1									
Licmophora sp.				1																										
Melosira sp.	1						1																				1			
Navicula sp.		1	1			1				1				1	1	1	1		1	1	1			1						
Nitzschioid sp.	1	1	1	1	1	1	1				1	1	1	1	1	1	1	1	2	2	2					1		1		
Pleurosigma/ Gyrosigma sp.			1														1		1											
Rhizosolenia setigera																			1	1										
Rhizosolenia sp. (pointy)			1																											
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii	1				1																									
Skeletonema costatum	1	1	1	1	1	1													1	1	1							1	1	1
Stephanopyxis sp.				1																										
Striatella/Rhabdonema																														
Thalassionema sp.		1		1	1		1												1	1	1									
Thalassiosira sp.	2	3	3	3	3	3	2	2								1	1		1	1	1			1			1		1	

Table 10 cont'd

date	11-Jul			19-Jul			26-Jul			01-Aug			08-Aug			15-Aug			22-Aug			29-Aug			05-Sep			12-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																			1				1							1
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																					1	1								
Campylosira/Plagiogramma																									1					
Cerautalina sp.											1	1			1											1				
Chaetoceros concavicorne																														
Chaetoceros convolutus																			1	1	1	1	1	1	1	1	1			
Chaetoceros sp.					1		4	5	4	5	6	6	6	4	3	1	1		8	7	9	4	6	8	5	8	8	2	2	2
Corethron hystrix																														
Coscinodiscus sp.		1			1			1		1	1	1					1		1										1	
Cylindrotheca closterium																										1	1			
Dactylisolen sp.																										1				
Detonula pumila										1	1	1		1			1		1	1	1		1		1	1	1	1		
Ditylum brightwellii							1	1	1	1	1	1		1	1		1			1		1	1	1		1				
Eucampia zoodiacus										1	1				1				1	1	1			1	1	1	1			
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata							1	1	1																					
Leptocylindrus danicus								1				1	1	1			1		1	1	1		1		1	1	1			
Leptocylindrus minimus													1			1	1						1							
Licmophora sp.										1								1				1			1					
Melosira sp.										1					1															
Navicula sp.												1					1		1	1	1	1	1	1		1	1			
Nitzschioid sp.								1		1			1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	
Pleurosigma/ Gyrosigma sp.																	1				1									
Rhizosolenia setigera																						1	1	1	1	1	1			1
Rhizosolenia sp. (pointy)																														1
Rhizosolenia sp. (blunt)																1			1	1	1		1	1	1					
Rhizosolenia stolterfothii																														
Skeletonema costatum			1				1	1	1	1	1	1	1	1	1	1	1		1	1	1		1	1	1	1	1		1	1
Stephanopyxis sp.																									1					
Striatella/Rhabdonema																														
Thalassionema sp.																	1		1		1	1	1		1		1		1	
Thalassiosira sp.						1	2	2	2	2	2	2	2	2	1	2	2	1	2	2	3	2	1	2	2	2	1		1	1

Table 10 cont'd

date	19-Sep			26-Sep			03-Oct			10-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms												
Achnanthes sp.												
Amphiprora/ Tropidoneis												
Asterionella japonica										1		1
Bacteriastrum sp.												
Biddulphia sp.									1			
Campylosira/Plagiogramma												
Cerautalina sp.												
Chaetoceros concavicorne							1	1	1	1	1	1
Chaetoceros convolutus		1		1						1	1	
Chaetoceros sp.	5	3	3	1	1		6	5	7	7	9	2
Corethron hystrix											1	
Coscinodiscus sp.		1						1				
Cylindrotheca closterium												
Dactylisolen sp.												
Detonula pumila												
Ditylum brightwellii							1					
Eucampia zoodiacus												
Grammatophora sp.												
Hemialus sp.												
Lauderia annulata												
Leptocylindrus danicus							1	1				
Leptocylindrus minimus				1								
Licmophora sp.												
Melosira sp.												
Navicula sp.	1	1	1	1	2	1	1	1	1	1		
Nitzschioid sp.		1	1				1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.								1				
Rhizosolenia setigera	1	1			1		1	1		1	1	1
Rhizosolenia sp. (pointy)												
Rhizosolenia sp. (blunt)								1				
Rhizosolenia stolterfothii									1			
Skeletonema costatum							1	1	1	1		
Stephanopyxis sp.		1										
Striatella/Rhabdonema												
Thalassionema sp.							1	1	1	1		
Thalassiosira sp.	1				1	1	2	1	1	1	1	1

Table 11 : Dinoflagellates in Conville Bay samples.

date	02-May			09-May			16-May			24-May			30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.													1				1				1	1								
Amphidinium sp.			1		1		1												1		1							1		
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.	1	1	1	1	1								1		1	1			1	1			1	1	2			2		
Diplopsalis sp.																									1					
Gonyaulacoid sp.	1																													
Gymnodinioid sp.	6	7	7	3	4	5	1	2	5	1	3	3	6	7	5	5	3	2	5	2	2	5	6	6	6	1	2	4	5	
Gymnodinium galatheanum																														
Gyrodinium spirale-type	2	3	2		1	2	1	1	2	2	2	1	2	2	1	1			2			1	1	1	1			1		
Heterocapsa triquetra											1					1	1	1	1	1	1	1	1	1	1			1		
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																									1					
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	8	8	9	8	8	6	4	4	4	6	4	3	7	5	4	4	5	3	6	5	2	5	4	7	2		1	3		1
Pyrocystis lunula																														
Raphidophytes																									1	1	1			
Heterosigma akashiwo																														

Table 11 cont'd

date	11-Jul			19-Jul			26-Jul			01-Aug			08-Aug			15-Aug			22-Aug			29-Aug			05-Sep			12-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.															1				1											
Cerstium divericatum																														
Ceratium furca																														
Ceratium fusus			1																											
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.															1															
Cochlodinium polykrikoides																			1											
Cochlodinium sp.																														
Dinophysioid sp.	1			1	1				1	1	1							1				1								
Diplopsalis sp.																													1	
Gonyaulacoid sp.				1						1		1		1	1							1								
Gymnodinioid sp.	1		1	1	1	1	6	2	3	4	4	5	6	6	4				4	1	2		2	1	2	2	1	2	3	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type			1		1																					1	1			
Heterocapsa triquetra	1						1	1	1		1				1															
Noctiluca scintillans																									1					
Noctilucoid sp.																														
Oxyphysis oxytoxoides																	1													
Oxymhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile	1	1					1						1						1	1					1					
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.	2	2	1	1	1		3	1	1	3	3	4	1	3	2	2	1		2	2	2	3	4	3	4	3	3	1		1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo				1	1														1											

Table 11 cont'd

date	19-Sep			26-Sep			03-Oct			10-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates												
Alexandrium sp.		1	1									
Amphidinium sp.												
Ceratium divericatum												
Ceratium furca												
Ceratium fusus												
Ceratium lineatum												
Ceratium pentagonum												
Ceratium sp.												
Cochlodinium polykrikoides												
Cochlodinium sp.												
Dinophysioid sp.												
Diplopsalis sp.												
Gonyaulacoid sp.												
Gymnodinioid sp.		4	2	1			5	2		2		1
Gymnodinium galatheanum												
Gyrodinium spirale-type							1					
Heterocapsa triquetra									1			
Noctiluca scintillans												
Noctilucoid sp.												
Oxyphysis oxytoxoides												
Oxymhis marina												
Oxytoxum sp.												
Polykrikos sp.												
Prorocentrum gracile												
Prorocentrum micans												
Prorocentrum sp.												
Protoperidinioid sp.		2	1	2	1		1	1	1	3		1
Pyrocystis lunula												
Raphidophytes												
Heterosigma akashiwo		1										

Table 12 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Conville Bay samples.

date	02-May			09-May			16-May			24-May			30-May			06-Jun			13-Jun			20-Jun			27-Jun			04-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																									1	1		1	1	
Dictyocha speculum											1					1			1	1	1					1			1	
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid	1	1											1	1	1															
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	5	4	2	4	4	5	5	3	3	2	5	4	4	3	4	4	6	3	3	3	3	3	3	3	3	3	5	2
Zooplankton																														
Appendicularian																														
Barnacle nauplius				1																										
Ciliate	10	10	10	4	3	6	4	1	4	5	2	3	8	7	6	5	3		5	8	1	3	1		6	4	2	8	2	1
Copepod																						1		1						
Nauplius																				1										
Pluteus																														
Rotifer		1		1																1										
Tintinnid	3	3	3	2	1	1	1		1					1		1	1		3	2			1							
Zoea																														
other																														
Dominant Species/Group																														
name	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros debilis*	ciliates	dinoflagellates	dinoflagellates	*Chaetoceros socialis*	*Chaetoceros socialis*	*Chaetoceros socialis*	*Chaetoceros socialis*	*Nitzschioid sp.*	dinoflagellates	dinoflagellates	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia spp.*	*Pseudonitzschia spp.*	*Pseudonitzschia spp.*	dinoflagellates	dinoflagellates	*Thalassiosira sp.*	*Heterosigma akashiwo*	cryptomonad sp.	dinoflagellates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	3700	4400	6000	3100	7300	2600	~20	~20	~30	4800	2600	~600	~500	~150	~100	~80	~20	~20	3400	3000	300	~60	~40	~10	~75	~60	~5	6000	~500	~50
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	75	75	80	80	85	75	25	20	2	55	60	50	22	45	30	10	45	55	50	55	65	0	0	40	0	5	20	60	40	50
Dinoflagellates	10	10	10	10	10	15	30	70	70	20	25	35	45	35	45	50	35	43	20	15	25	85	80	45	40	5	30	10	20	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	15	2	0	0	0
Other Flagellates	2	1	1	1	1	1	5	5	5	5	5	5	3	3	5	3	2	2	5	5	5	5	10	10	10	35	23	5	20	10
Zooplankton	13	14	9	9	4	9	40	5	23	20	10	10	30	17	20	37	18	0	25	25	5	10	10	5	25	40	25	25	20	20
Biomass	4.5	4.0	4.0	3.5	4.0	3.0	2.0	1.5	2.0	2.5	3.0	2.0	2.5	2.5	2.0	2.0	2.0	2.0	4.0	3.5	3.0	2.0	1.5	1.5	2.0	1.5	1.5	4.0	2.0	1.5

Table 12 cont'd

date	11-Jul			19-Jul			26-Jul			01-Aug			08-Aug			15-Aug			22-Aug			29-Aug			05-Sep			12-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads				1															1		1									
Dictyocha speculum	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1		1					1							
Dinobryon balticum																														
Ebria tripartita																				1										
Euglenoid							1																							
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	3	4	4	3	2	5	3	2	3	3	4	5	4	4	3	4	2	2	3	3	3	2	2	2	2	2	2	3	4
Zooplankton																														
Appendicularian																														
Barnacle nauplius																														
Ciliate	2			6	8	1	4	2	1			1	1	5	2	2				1		1			1	1	2	3	3	1	
Copepod																														1	
Nauplius																						1	1							
Pluteus																														
Rotifer													1						1											
Tintinnid				2	1		3	2	1	3	3	3		1	1		1		1		1				2	1				
Zoea																														
other				1						1			1																	
Dominant Species/Group																														
name	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Ditylum brightwellii*	*Thalassiosira spp.*	*Dictyocha speculum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Thalassiosira rotula*	*Thalassiosira rotula*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira sp.*	*Skeletonema costatum*	*Chaetoceros debilis*	*Skeletonema costatum*	*Rhizosolenia setigera*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros debilis*	*Coscinodiscus sp.*	*Rhizosolenia setigera*
count (cells/mL)	~180	~50	~55	~160	~360	~280	~40	~50	~40	53000	30000	22000	1300	~54	~40	~10	~15	~4	5000	3000	2800	~15	~100	~100	2400	2300	~550	~13	~3	~2
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	10	20	0	5	5	60	60	60	95	95	95	75	70	65	60	80	60	96	98	96	70	70	80	89	85	85	40	70	85
Dinoflagellates	20	30	20	29	14	5	10	10	15	3	2	2	10	20	25	20	10	20	2	1	2	20	20	17	5	10	10	8	10	10
Raphidophytes	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	70	60	60	50	45	85	10	20	20	1	1	1	5	5	5	20	5	20	1	1	1	5	2	1	1	1	1	2	10	5
Zooplankton	10	0	0	20	35	5	20	10	5	1	2	2	10	5	5	0	5	0	1	0	1	5	8	2	5	4	4	50	10	0
Biomass	3.0	2.0	2.0	2.5	3.0	2.5	3.5	2.5	2.0	4.5	4.0	4.0	3.0	2.5	2.0	1.5	2.0	1.5	4.0	3.0	3.5	2.0	2.0	2.0	4.0	3.5	3.0	2.5	2.0	2.0

Table 12 cont'd

date	19-Sep			26-Sep			03-Oct			10-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates												
Cryptomonads												
Dictyocha speculum	1	1	1		1	1	1	1	1		1	1
Dinobryon balticum												
Ebria tripartita												
Euglenoid							1					
Phaeocystis pouchetii												
Radiolarian												
unid. Nanoflagellates	3	3	2	2	2	2	4	2	4	2	1	2
Zooplankton												
Appendicularian												
Barnacle nauplius												
Ciliate	4	3	1	1		1	2			1	1	2
Copepod												
Nauplius			1								1	
Pluteus												
Rotifer												
Tintinnid		1		2			1					
Zoea												
other												
Dominant Species/Group												
name	*Chaetoceros spp.*	*Pseudonitzschia sp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	diatoms	*Skeletonema costatum*	*Chaetoceros spp.*	*Skeletonema costatum*	*Chaetoceros concavicorne*	*Chaetoceros concavicorne*	*Chaetoceros concavicorne*
count (cells/mL)	~150	~20	~50	~20	~10	~5	~300	~200	~200	~37	~40	~31
% constituent	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	60	40	40	45	80	40	75	94	90	85	95	90
Dinoflagellates	0	35	40	30	10	0	17	5	7	10	0	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	5	5	5	10	30	3	1	3	1	1	1
Zooplankton	30	20	15	20	0	30	5	0	0	4	4	4
Biomass	1.5	2.0	1.5	1.5	1.5	1.5	2.5	2.0	2.0	2.5	2.5	2.0

Table 13 : Diatoms in Kunechin Point samples.

date	24-Feb			03-Mar			10-Mar			17-Mar			24-Mar			31-Mar			14-Apr			21-Apr			28-Apr			05-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.							1	1	1	1	1		1	1	1	1	1	1												
Campylosira/Plagiogramma																														
Cerautalina sp.																									1					
Chaetoceros concavicorne		1																											1	
Chaetoceros convolutus															1						1									
Chaetoceros sp.	2	2	2	5	5	3	4	5	6	8	9	8	9	10	6	10	9	8			1				4	2	1	5	6	2
Corethron hystrix											1				1															
Coscinodiscus sp.	1	1								1	1	1		1	1	1	1	1												
Cylindrotheca closterium	1								1									1												
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii				1	1		1	1	1	1	1		1	1	1	1	1	1	1											
Eucampia zoodiacus														1	1	1														
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																														
Leptocylindrus minimus																														
Licmophora sp.																						1			1	1				
Melosira sp.															1												1			
Navicula sp.														1																
Nitzschioid sp.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1		1	1	1				1	
Pleurosigma/ Gyrosigma sp.												1																		
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)				1	1		1	1		2	1	1		1	1		1	1			1								1	
Rhizosolenia stolterfothii								1		1			1	1	1	1	1	1												1
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1		1		1	1			1	1
Stephanopyxis sp.										1				1																
Striatella sp.																														
Thalassionema sp.		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1				1		1	1						
Thalassiosira sp.	1	1	1	3	3	2	3	3	3	3	2	2	2	3	3	2	2	2			1	1	1	1	4	3	3	2	3	3

Table 13 cont'd

date	12-May			19-May			26-May			02-Jun			09-Jun			16-Jun			23-Jun			30-Jun			07-Jul			14-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma													1																	
Cerautalina sp.																1				1										
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	1	3	4		1	1	1	2	1	1	1	1				1												1		
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium																		1												
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																			1											
Grammatophora sp.													1							1						1				
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1																1	1		1		1	1							
Leptocylindrus minimus																														
Licmophora sp.							1		1		1		1			1		1	1	1										
Melosira sp.																														
Navicula sp.											1									2										
Nitzschioid sp.										1										1						1				
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)					1		1	1	1																					
Rhizosolenia stolterfothii																														
Skeletonema costatum		1	1		1					1	1	1		1	1	1				1										
Stephanopyxis sp.																														
Striatella sp.																								1						
Thalassionema sp.																														
Thalassiosira sp.	2	3	4										1					1		1		1		1	1	1	1	1	2	1

Table 13 cont'd

date	21-Jul			04-Aug			11-Aug			18-Aug			25-Aug			01-Sep			08-Sep			15-Sep			23-Sep			29-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																		1												
Asterionella japonica																				1										
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylos[illegible]/Plagiogramma																						1								
Cerautalina sp.																												1		
Chaetoceros concavicorne																	1													
Chaetoceros convolutus											1			1	1		1													
Chaetoceros sp.				5	3	5				1	3	1	2	4	5	2	4		3		1							4	4	
Corethron hystrix											1																			
Coscinodiscus sp.								1							1													1		
Cylindrotheca closterium															1										1			1	1	1
Dactylisolen sp.											1		1																	
Detonula pumila																														
Ditylum brightwellii																1										1		1	1	1
Eucampia zoodiacus														1																
Grammatophora sp.										1				1								1	1	1						1
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus				1	1	1							1	1	1			1	1	1								1		
Leptocylindrus minimus						1																								1
Licmophora sp.							1		1	1			1		1															1
Melosira sp.													1																	
Navicula sp.													1	2											2		1	1	1	3
Nitzschioid sp.													1	1	1	2	2	1	1									1	1	1
Pleurosigma/ Gyrosigma sp.															1			1												1
Rhizosolenia setigera																												1		
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)				1																								1	1	
Rhizosolenia stolterfothii																														
Skeletonema costatum							1	1		1	1	1	1	1	1	1											1	1	1	1
Stephanopyxis sp.																														
Striatella sp.																														
Thalassionema sp.										1				1								1								
Thalassiosira sp.			1		1		1			2	2	2	1	1	2	1	1						1		1	1	1	2	3	3

Table 13 cont'd

date	06-Oct			13-Oct			20-Oct			26-Oct			03-Nov			10-Nov			17-Nov			23-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																								
Achnanthes sp.																								
Amphiprora/ Tropidoneis																								
Asterionella japonica																								
Bacteriastrum sp.																								
Biddulphia sp.																								
Campylosira/Plagiogramma																								
Cerautalina sp.													1								1			
Chaetoceros concavicorne	1	1			1	1							1	1	1									
Chaetoceros convolutus				1	1																			
Chaetoceros sp.	9	6	7	2	10	7	5	2		2	3	2	7	8	1	3	3							
Corethron hystrix				1	1									1										
Coscinodiscus sp.														1										
Cylindrotheca closterium						1	1	1				1		1	1									
Dactylisolen sp.																								
Detonula pumila						1																		
Ditylum brightwellii	1	1	1		1	1							1	1									1	
Eucampia zoodiacus	1					1																		
Grammatophora sp.																								
Hemiaulus sp.																								
Lauderia annulata																								
Leptocylindrus danicus	1												1	1			1							
Leptocylindrus minimus																								
Licmophora sp.																								
Melosira sp.						1																		
Navicula sp.	1	1	1	1	1	1	1	1					1	1			1	1					1	
Nitzschioid sp.							1	1					1	1		1	1	1	1		1			
Pleurosigma/ Gyrosigma sp.																								
Rhizosolenia setigera	1			1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1			
Rhizosolenia sp. (pointy)					1																			
Rhizosolenia sp. (blunt)	1		1		1		1	1					1	1			1	1						
Rhizosolenia stolterfothii																								
Skeletonema costatum	1	1	1	1	1	1	1	1			1		1	1	1	1	1							
Stephanopyxis sp.																								
Striatella sp.																								
Thalassionema sp.					1	1											1							
Thalassiosira sp.	2	2	1		2	2	2	2					2	2	1	2	2	1	1	1				1

Table 14 : Dinoflagellates in Kunechin Point samples.

date	24-Feb			03-Mar			10-Mar			17-Mar			24-Mar			31-Mar			14-Apr			21-Apr			28-Apr			05-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.								1						1	1	1	1	1												
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																							1					1	1	
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gymnodinioid sp.		1	2	2	1	2	4	2	5	1	1	2	3	3	6	3	2	1	2	2	3	1	1	1	2	2	2	3	3	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type		1				1	2	1	1	2	2	1	1	1	3	2	3	2	1	1	1	1	1		1	1	1	1	2	
Heterocapsa triquetra																														
Noctiluca scintillans																												1		
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.		1					1	3	3	3	2		2	2	1	1	5			1	2	1						3	2	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 14 cont'd

date	12-May			19-May			26-May			02-Jun			09-Jun			16-Jun			23-Jun			30-Jun			07-Jul			14-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																							1							
Amphidinium sp.			1																											
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus				1	1																							1	1	1
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.	1		2	2				1											1						2	1	1		1	2
Diplopsalis sp.																		1											1	
Gonyaulacoid sp.											1																			
Gymnodinioid sp.	3	2		7	3	2	2	3	2	3	2	2	5	4	4	1	3	3	2	3		5	3	3	6	2	2	2	1	2
Gymnodinium galatheanum																														
Gyrodinium spirale-type	2	1	2		2	1	1	1	2	1			2		2		1	2				1							1	
Heterocapsa triquetra																				1					1					
Noctiluca scintillans				1																										
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																												1		
Prorocentrum micans																														
Prorocentrum sp.																1				1										
Protoperidinioid sp.	2	3				1	1		3	1			2			1	1	2		1				2		1	1	1	1	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																						1	1	1	1	1	1			

Table 14 cont'd

date	21-Jul			04-Aug			11-Aug			18-Aug			25-Aug			01-Sep			08-Sep			15-Sep			23-Sep			29-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus		1		1	1		1				1			1	1	1	1		1	1		1		1						
Ceratium lineatum																														
Ceratium pentagonum																							1							
Ceratium sp.																			1											
Cochlodinium polykrikoides																													1	
Cochlodinium sp.																														
Dinophysioid sp.								1	1			1		1	1		1													
Diplopsalis sp.																														
Gonyaulacoid sp.	1			1	1	1	1	1	1		1					1														
Gymnodinioid sp.	3	1		6	5	6	3	1	1	3	5	2	4	4	3	4	1	3	5	3	3	5	5	5	7	5	2	5	6	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type				1		1					1			2	2	1			1	1					1					
Heterocapsa triquetra																			1											
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														1
Prorocentrum sp.				3			1			1	1	3		1	3	1		3		1					1	1		3		1
Protoperidinioid sp.																														
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo				1															1	1					1	1				

Table 14 cont'd

date	06-Oct			13-Oct			20-Oct			26-Oct			03-Nov			10-Nov			17-Nov			23-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																								
Alexandrium sp.					1	1	1	1																
Amphidinium sp.															1		1							
Ceratium divaricatum																								
Ceratium furca																								
Ceratium fusus	1																							
Ceratium lineatum																								
Ceratium pentagonum																								
Ceratium sp.																								
Cochlodinium polykrikoides																								
Cochlodinium sp.																								
Dinophysioid sp.							1	1																
Diplopsalis sp.																								
Gonyaulacoid sp.																								
Gymnodinioid sp.	2			1	3	2	8	6		5	3		1	2	2	2	1	3	1		1	1		
Gymnodinium galatheanum																								
Gyrodinium spirale-type					1		2									1	1	1		1				
Heterocapsa triquetra																								
Noctiluca scintillans																								
Noctilucoid sp.																								
Oxyrrhis marina																								
Oxyphysis oxytoxoides																								
Polykrikos sp.							1																	
Prorocentrum gracile																								
Prorocentrum micans																								
Prorocentrum sp.																								
Protoperidinioid sp.	1				3	1	1	1									1							
Pyrocystis lunula																								
Raphidophytes																								
Heterosigma akashiwo																								

Table 15 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Kunechin Point samples.

date	24-Feb			03-Mar			10-Mar			17-Mar			24-Mar			31-Mar			14-Apr			21-Apr			28-Apr			05-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum																													11	
Dinobryon balticum																														
Eoria tripartita								1																						
Euglenoid																														
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	3	4	5	3	3	5	2	3	3	3	3	3	2	2	3	2	3	4	3	3	3	4	5	5	4	4	2	4
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate			2	1	1	1	2	2	4	1	5	1	6	2	2	2	1		5	4	5	4	5	5	7	7	3	6	5	8
Copepod																														
Nauplius															1														1	
Pluteus																														
Rotifer																														
Tintinnid							1		1	1	1	1																		
Zoea																														
other									1		1			1																1
polien																														
Dominant Species/Group																														
name	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	ciliates	ciliates	*Thalassiosira sp.*	ciliates	*Thalassiosira nordenskioeldi*	*Thalassiosira nordenskioeldi*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*
count (cells/mL)	~740	~680	~330	10400	3700	~540	3000	4500	3400	6700	7600	3000	4200	5200	5400	6800	7700	4200	~20	~10	~4	~10	~7	~6	1200	~320	~100	~170	4500	3300
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	90	90	96	97	95	90	90	90	96	93	91	90	90	90	90	90	95	30	0	25	15	30	30	75	70	65	75	85	85
Dinoflagellates	0	5	3	2	1	3	6	7	5	2	2	5	5	7	7	8	8	4	20	40	30	30	10	5	5	5	10	10	5	4
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	10	5	10	5	5	5	5	5	5	1	1
Zooplankton	0	0	5	1	1	1	3	2	4	1	4	3	4	2	2	1	1	0	45	50	40	45	55	60	15	20	20	10	9	10
Biomass	3.0	3.0	2.5	4.5	3.5	3.0	4.0	4.0	4.0	4.5	4.5	4.0	4.0	3.5	3.5	4.0	4.0	3.5	1.5	1.5	2.0	1.5	1.5	1.5	3.5	3.0	2.5	3.0	4.5	4.0

Table 15 cont'd

date	12-May			19-May			26-May			02-Jun			09-Jun			16-Jun			23-Jun			30-Jun			07-Jul			14-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																							1							
Dictyocha speculum		1		1		1				1		1	1	1		1	1	1		1		1					1			
Dinobryon balticum										1																				
Ebria tripartita													1																	
Euglenoid																1	1													
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	3	3	5	3	4	2	2	3	4	4	3	3	3	3	3	3	4	5	5		3	4	3	4	3	3	2	3	3
Zooplankton																														
Amoeba																	1													
Appendicularian					1																									
Ciliate	2	4	6	8	6	7	5	4	6	3	3	4	3	5	6	4	5	4	4	1		2	4	4	9	3	5	5	5	3
Copepod																		1												1
Nauplius			1																											
Pluteus																														
Rotifer						1																								
Tintinnid										1		1	1				3	1		1				1	1	1	1	1	1	1
Zoea																														
other	1		1				1			1																				
pollen											1																			
Dominant Species/Group																														
name	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	ciliates	ciliates	ciliates	ciliates	ciliates	ciliates	dinoflagellates	*Chaetoceros sp.*	*Chaetoceros sp.*	*Licmophora sp.*	ciliates	*Skeletonema costatum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Licmophora sp.*	*Grammatophora sp.*	no sample	*Heterosigma akashiwo*	ciliates	*Heterosigma akashiwo*	ciliates & tintinnids	ciliates & tintinnids	*Thalassiosira sp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira sp.*
count (cells/mL)	~360	~410	~450	~50	~30	~20	~20	~8	~30	~10	~100	~50	~80	~10	~50	~12	~21	~11	~20	~300		~250	~100	~240	~110	~10	~360	~280	~460	~420
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	90	85	0	10	5	20	20	30	20	45	30	60	5	35	20	5	15	60	55	35	10	5	20	10	35	40	40	35	35
Dinoflagellates	10	5	5	40	35	20	25	33	20	35	20	20	10	30	25	25	30	30	10	10	20	30	20	10	25	20	10	20	25	35
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	20	30	20	1	5	0	0	0
Other Flagellates	1	1	1	5	5	5	5	2	2	20	20	25	25	20	10	25	30	25	10	5	15	10	25	10	5	4	10	5	5	5
Zooplankton	4	4	9	55	50	70	50	45	48	25	15	25	5	45	30	30	35	30	20	30	30	30	30	30	40	40	35	35	35	25
Biomass	3.0	3.0	3.0	2.0	2.0	1.5	2.0	1.5	2.0	2.0	2.0	2.0	3.0	1.5	1.5	1.5	2.0	1.5	1.5	1.5	1.5	2.5	2.5	2.0	3.0	1.5	2.0	2.0	2.0	2.0

Table 15 cont'd

date	21-Jul			04-Aug			11-Aug			18-Aug			25-Aug			01-Sep			08-Sep			15-Sep			23-Sep			29-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads									1			1										1			1	1	1			
Dictyocha speculum				1	1		1	1	1							1												1		
Dinobryon balticum																														
Ebria tripartita												1																		
Euglenoid																												1		
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	4	4	3	4	3	3	3	4	4	4	3	4	3	3	3	3	4	4	2	3	4	3	3	4	4	4	3	4	3	4
Zooplankton																														
Amoeba																				1										
Appendicularian																														
Ciliate	3	1	2	8	9	7	6	7	5	6	6	4	4	1	3	5	7	6	4	8	4	6	6	6	6	7	6	5	6	4
Copepod										1																				
Nauplius			1	1	1																									
Pluteus																														
Rotifer																														
Tintinnid							1								1	1														
Zoea																														
other								1							1															
pollen																														
Dominant Species/Group																														
name	dinoflagellates	dinoflagellates	ciliates	dinoflagellates	*Chaetoceros spp.*	*Chaetoceros spp.*	ciliates	ciliates	ciliates	*Grammatophora sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Ceratium fusus*	*Ceratium fusus*	*Chaetoceros convolutus*	*Ceratium fusus*	ciliates	ciliates	dinoflagellates	ciliates	ciliates	dinoflagellates	ciliates	ciliates	*Thalassiosira rotula*	*Thalassiosira rotula*	*Skeletonema costatum*
count (cells/mL)	~5	~3	~4	~150	~200	~160	~40	~60	~60	~100	3600	8600	~500	~180	980	~7	~6	~35	~4	~40	~10	~30	~20	~20	~20	~10	~10	~30	~40	~300
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	0	0	25	30	24	35	20	10	5	55	65	93	85	85	80	20	30	80	5	10	5	30	10	20	5	15	10	55	60	75
Dinoflagellates	45	40	0	35	30	35	33	30	20	20	25	3	5	13	15	55	50	5	85	30	25	35	35	25	45	30	20	15	15	10
Raphidophytes	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	1	0	0	0	0
Other Flagellates	20	30	30	4	1	1	2	5	5	5	2	1	2	1	1	1	1	1	1	9	20	10	10	20	14	14	15	5	5	5
Zooplankton	35	30	45	30	45	29	45	55	70	20	8	3	8	1	4	24	19	14	7	50	50	25	45	35	35	40	55	25	20	10
Biomass	1.0	1.0	1.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.5	2.0	3.0	4.0	2.0	2.0	2.5	2.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.0	2.5

Table 15 cont'd

date	06-Oct			13-Oct			20-Oct			26-Oct			03-Nov			10-Nov			17-Nov			23-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																								
Cryptomonads																								
Dictyocha speculum																								
Dinobryon balticum																								
Ebria tripartita																								
Euglenoid																								
Phaeocystis pouchetii																								
Radiolarian																								
unid. Nanoflagellates	2	2	2	4	2	3	4	2		4	2	3	2	4	3	4	2	4	3	3	3	3	3	3
Zooplankton																								
Amoeba																								
Appendicularian																								
Ciliate	2	1	1	7	7	2	4	1		3	2		3	5	2		1	1	2		2	1		2
Copepod		1																						
Nauplius			1				1																	
Pluteus																								
Rotifer																								
Tintinnid							1						1											
Zoea																								
other																								
polien																								
Dominant Species/Group																								
name	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Rhizosolenia setigera*	*Chaetoceros spp.*	*Chaetoceros concavicorne*	*Alexandrium catenella*	*Rhizosolenia setigera*	no sample	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Thalassiosira sp.*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Ditylum brightwellii*	*Navicula sp.*	ciliates
count (cells/mL)	2200	~360	~300	~7	1100	~47	~300	~35		~24	~110	~12	570	650	~120	~70	~170	~30	~15	~5	~3	~1	~1	~4
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	90	95	95	45	80	90	45	55	93	50	85	95	92	93	90	80	75	65	75	50	40	40	40	10
Dinoflagellates	5	0	0	5	10	5	45	40	2.5	40	10	0	2	2	5	10	15	20	5	20	10	20	0	0
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	10	1	1	1	1	3	2	1	5	1	1	1	10	5	10	10	30	20	20	60	20
Zooplankton	4	4	4	40	9	4	9	4	2	8	4	0	5	4	4	0	5	5	10	0	30	20	0	70
Biomass	3.0	2.5	2.0	1.5	3.0	2.0	3.5	2.0	1.8	2.5	2.5	1.5	4.0	4.0	2.0	2.5	2.5	2.0	1.5	1.0	1.0	1.0	1.0	1.0

Table 16 : Diatoms in Departure Bay samples.

date	14-Feb			21-Feb			27-Feb			14-Mar			21-Mar			04-Apr			11-Apr			18-Apr			25-Apr			02-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica																														
Asteromphalus sp.																														
Asteromphalus heptactis																														
Bacteriastrum sp.																														
Biddulphia sp.																														
Cerautalina sp.																			1	1		1	1		1			1	1	1
Chaetoceros concavicorne								1		1		1	1					1												1
Chaetoceros convolutus											1					1				1		1	1	1	1	1	1	1	1	1
Chaetoceros sp.			1						2	1	2	1	1	2		8	8	7	8	9	7	8	8	8	8	10	7	7	9	5
Corethron hystrix																						1	1	1	1					
Coscinodiscus sp.	1										1			1			1	1	1	1	1	1	1	1		1	1	1		
Cylindrotheca closterium						1	1									1	1	1				1	1			1		1	1	1
Dactylisolen sp.																														
Detonula pumila																												1	1	
Ditylum brightwellii										1						1	1	1	1	1		1	1	1		1	1	1		1
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1										1													1		1			
Leptocylindrus minimus																														
Licmophora sp.					1																									
Melosira sp.																														
Navicula sp.													1								1	1	1	1		1	1	1	1	1
Nitzschioid sp.	1						1		1	1	1	1		1		1	1	1	1	1	1	1	1	2	1	1	1	2	2	1
Pleurosigma/ Gyrosigma sp.					1												1											1		
Rhizosolenia setigera																														
Rhizosolenia sp. (pointy)																1									1		1	1		
Rhizosolenia sp. (blunt)																1			2	1					1	2	1	1	1	1
Rhizosolenia stolterfothii																1		1				1	1		1	1	1	1	1	1
Skeletonema costatum												1	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.		1						1						1		1	1	1												
Thalassionema sp.										1				1		1	1	1	1	1	1	1	1	1	1					1
Thalassiosira sp.		1	1			1	1	1	1	2	2	2	2	2		3	3	3	3	3	3	3	3	3	2	3	3	2	2	2

Table 16 cont'd

date	16-May			23-May			30-May			05-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul			18-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																														
Asteromphalus sp.																														
Asteromphalus heptactis																														
Bacteriastrum sp.																														
Biddulphia sp.								1						1								1		1					1	
Cerataulina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.	7	5	3	3	4	5	6	7	3	6	7	5	1									2		1					1	1
Corethron hystrix													1					1				1	1	1		1				
Coscinodiscus sp.							1				1	1		1						1			1	1						
Cylindrotheca closterium																														
Dactyliosolen sp.																														
Detonula pumila																														
Ditylum brightwellii													1																	
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus							1	1	1			1	1			1			1			1	1	1	1	1	1		1	1
Leptocylindrus minimus																									1	1	1			1
Licmophora sp.							1												1											
Melosira sp.																														
Navicula sp.	1		1				1	1	1		1	1							1				1							
Nitzschioid sp.	1	1		2	1	2	2	3	1	2	2	2									1	1			1	1				1
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera												1					1			1			1	1		1	1		1	1
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)	1		1																											
Rhizosolenia stolterfothii																														
Skeletonema costatum	1	1	1	1	1	1	1	1		1	1	1										1	1	1	1		1	1	1	1
Stephanopyxis sp.																														
Thalassionema sp.	1									1	1				1												1	1	1	1
Thalassiosira sp.				1	1	1	2	2	1	1	2	1		1								1	1	1			1			

Table 16 cont'd

date	25-Jul			01-Aug			08-Aug			15-Aug			22-Aug			29-Aug			05-Sep			13-Sep			19-Sep			26-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica													1							1										
Asteromphalus sp.													1	1																
Asteromphalus heptactis																		1												
Bacteriastrum sp.																														
Biddulphia sp.													1	1		1	1	1	1	1	1									
Cerataulina sp.	1						1	1	1																					
Chaetoceros concavicorne																										1				
Chaetoceros convolutus														1	1	1	1	1	1	1	1									
Chaetoceros sp.	8	8	5	2	1	5	5	6	4	5	6	1	11	10	9	6	6	4	7	9	8		2	3	4	5	4	8	9	9
Corethron hystrix																											1	1		
Coscinodiscus sp.	1	1	1	1	1		1										1			1	1								1	1
Cylindrotheca closterium						1										1		1												
Dactyliosolen sp.																														
Detonula pumila																1	1	1	1	1	1		1	1		1	1		1	1
Ditylum brightwellii	1	1	1	1	1	1		1	1	1		1	1	1	1	1	1	1	1	1	1									1
Eucampia zoodiacus	1			1	1		1	1	1				1	1		1														
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata						1																				1				
Leptocylindrus danicus	1		1	1	1	1	1	1	1				1	1						1										
Leptocylindrus minimus														1							1	1				1				
Licmophora sp.	1																													
Melosira sp.							1			1			1	1	1	1	1	1	1	1	1					1		1	2	
Navicula sp.								1		1			1	1		1	1	1	1	1	1				1	1	1	1	1	
Nitzschioid sp.	1	1													1															
Pleurosigma/ Gyrosigma sp.													1	1	1	1	1	1	1	1	1				1	1	1	1	1	1
Rhizosolenia setigera	1	1																												
Rhizosolenia sp. (pointy)													2			1	1	1										1	1	1
Rhizosolenia sp. (blunt)		1																												
Rhizosolenia stolterfothii																												1	1	1
Skeletonema costatum	1	1	1	1	1	1	1	1					1	1	1	1	1		1	1	1									
Stephanopyxis sp.																				1	1					1				
Thalassionema sp.		1				1						1	1	1	1	1	1						1	1	1	1	1	2	2	2
Thalassiosira sp.	1	1	1	1	1	1	2	2	2	2			2	2	2	1	2	1	2	2	1									

Table 16 cont'd

date	10-Oct			17-Oct			24-Oct			31-Oct			07-Nov			14-Nov			21-Nov			28-Nov			05-Dec		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																											
Achnanthes sp.																											
Amphiprora/ Tropidoneis						1		1																			
Asterionella japonica																											
Asteromphalus sp.																											
Asteromphalus heptactis																											
Bacteriastrum sp.																											
Biddulphia sp.																											
Cerautaline sp.																											
Chaetoceros concavicorne		1	1	1	1	1	1	1	1		1	1		1													
Chaetoceros convolutus	1	1	1			1	1	1	1		1		1													1	
Chaetoceros sp.	3	5	8	2	5	4	4	1	1		3	1				1	1	1								1	
Corethron hystrix	1	1							1																		
Coscinodiscus sp.	1	1	1	1	1																						
Cylindrotheca closterium			1						1	1																	
Dactylisolen sp.																											
Detonula pumila																											
Ditylum brightwellii	1		1			1	1	1	1	1	1	1	1		1			1									
Eucampia zoodiacus										1		1															
Grammatophora sp.																											
Hemiaulus sp.																											
Lauderia annulata																											
Leptocylindrus danicus																											
Leptocylindrus minimus								1																			
Licmophora sp.																											
Melosira sp.																											
Navicula sp.		1	1		1	1				1		1	1		1				1					1		1	
Nitzschioid sp.	1	1	1		1	1	1	1	1	1	1				1												
Pleurosigma/ Gyrosigma sp.								1																			
Rhizosolenia setigera		1	1		1	1	1	1	1			1	1	1													
Rhizosolenia sp. (pointy)															1												
Rhizosolenia sp. (blunt)														1													
Rhizosolenia stolterfothii															1												
Skeletonema costatum	1	1	1					1			1				1								1				
Stephanopyxis sp.																											
Thalassionema sp.						1													1								
Thalassiosira sp.	1	1	1	1	1	1	2	1	1			2	1	2			1					1		1			1

Table 17 : Dinoflagellates in Departure Bay samples.

date	14-Feb			21-Feb			27-Feb			14-Mar			21-Mar			04-Apr			11-Apr			18-Apr			25-Apr			02-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																			1			1	1		1	1	1	1	1	1
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Diplopsalis sp.																														
Gonyaulacoid sp.																														
Gonyavlax grindleyi																														
Gymnodinioid sp.	3	3	3	1		1	5	3	6	2	2	3	2	2		5		2	3	4	1	2	4		3	2	3	2	2	
Gymnodinium galatheanum																														
Gyrodinium spirale-type									1	1		1				2	2	2	1	3		1	1		2	2	1	1		
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																														
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum sp.																														
Protoperidinioid sp.		1		2	1		2	2			2	2	3			2		1	1	1		1	1	3	1	2	3	2		1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 17 cont'd

date	16-May			23-May			30-May			05-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul			18-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.															1							1	1		1					
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.		2												1		1		1	2				2	1	1	1			1		1
Diplopsalis sp.															1															
Gonyaulacoid sp.																1			1					1		1				
Gonyaulax grindleyi																												1	1	
Gymnodinioid sp.	8	4	5	4	5	7		2	2	3	2		4	3	4	7	7	7	6	6	5	7	7	6	4	7	6	3	5	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1	1	2	1	1					1				1	2	3	2	1	1	1		2	2			1	2	1	1	2
Heterocapsa triquetra			1	1	1	1							1	1	1	1	1	1	1	1		1	1		1	1	1			
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																			1			1			1	1				
Oxyphysis oxytoxoides																	1													
Polykrikos sp.	1																													
Prorocentrum gracile																														
Prorocentrum micans																								1		1				
Prorocentrum sp.					1																									
Protoperidinioid sp.	5	3	3	6	6	8	2	2		7	2	2	8	4	3	6	6	6	3	4		9	6	3	5	6	1		1	
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo													1	1	1	1	1	1				1	1	1	1	1	1			

Table 17 cont'd

date	25-Jul			01-Aug			08-Aug			15-Aug			22-Aug			29-Aug			05-Sep			13-Sep			19-Sep			26-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus				1																										
Ceratium lineatum																														
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																													1	
Dinophysioid sp.	1	1	1	1								1																		
Diplopsalis sp.																														
Gonyaulacoid sp.				1	1	1		1								1														
Gonyaulax grindleyi																4	5	6	1											
Gymnodinioid sp.	2	3	3	9	9	6	3	3	1	4	3	4	5	4	1				7	3	5	4	2	5	4	3	5	5	3	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type					1		1		1				1	1			1				1							1	1	1
Heterocapsa triquetra																														
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides				1																										
Polykrikos sp.																														
Prorocentrum gracile	1											1	1			1														
Prorocentrum micans																														
Prorocentrum sp.																				1										
Protoperidinioid sp.	2	1	2	4	2	1	1		4	2	3	1	4		1	5	1	2	3						2			1		1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo	1					1		1		1			1	1			1				1									

Table 17 cont'd

date	10-Oct			17-Oct			24-Oct			31-Oct			07-Nov			14-Nov			21-Nov			28-Nov			05-Dec		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																											
Alexandrium sp.																											
Amphidinium sp.										1			1														
Ceratium divericatum																											
Ceratium furca																											
Ceratium fusus																											
Ceratium lineatum									1																		
Ceratium pentagonum																											
Ceratium sp.																											
Cochlodinium polykrikoides																											
Cochlodinium sp.																											
Dinophysioid sp.																											
Diplopsalis sp.																											
Gonyaulacoid sp.																											
Gonyaulax grindleyi																											
Gymnodinioid sp.	5	4	5	5	5	3	5	7	5	3	4	3	4	4	1	3	3	3		1		2	3	3	1	2	2
Gymnodinium galatheanum																											
Gyrodinium spirale-type							1	2	1			1			2	1						1				1	
Heterocapsa triquetra																											
Noctiluca scintillans																											
Noctilucoid sp.																											
Oxyrrhis marina																											
Oxyphysis oxytoxoides																											
Polykrikos sp.																											
Prorocentrum gracile																											
Prorocentrum micans													1														
Prorocentrum sp.					1								1									1					
Protoperidinioid sp.	1		1	2	1	2	1	3		3	1	2	2			1		1		1		1					
Pyrocystis lunula																											
Raphidophytes																											
Heterosigma akashiwo																											

Table 18 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Deparature Bay samples.

date	14-Feb			21-Feb			27-Feb			14-Mar			21-Mar			04-Apr			11-Apr			18-Apr			25-Apr			02-May		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																														
Dictyocha speculum								1		1		1																1		
Dinobryon balticum																														
Ebria tripartita	1	1	1				1		1	1		1																		
Euglenoid							1			1		1						1					1							
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	3	5	3	4	2	4	4	4	4	5	4	3	4		4	3	3	4	3	3	3	3	2	3	3	3	3	3	3
Zooplankton																														
Amoeba																														
Appendicularian																											1			
Barnacle nauplius																														
Ciliate	9	7	3	4	2	1	8	6	7	9	8	6	8	2		6	6	2	6	3	2	0	1	1	6	8	4	8	5	2
Copepod																														
Nauplius																										1				
Pluteus																														
Rotifer																														
Tintinnid													1			1				1			1		1	1				
Zoea																														
other																														
Dominant Species/Group																														
name	ciliates	ciliates	ciliates	"n" nanflagellate	ciliates	diatoms	ciliates	*Thalassiosira sp.*	*Thalassiosira sp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	no sample	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Rhizosolenia delicatula*	*Chaetoceros spp.*	*Chaetoceros spp.*
count (cells/mL)	~50	~20	~10	~100	~5	~2	~50	~6	~9	~20	~180	~180	~35	~20	.	~540	~820	~800	1300	1500	~380	~550	~430	~560	~100	~330	~180	~110	2800	1200
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	15	35	20	0	20	30	15	50	60	55	75	80	60	85	83	85	90	90	85	90	97	95	94	97	75	65	80	70	85	85
Dinoflagellates	15	10	20	20	20	25	25	15	15	5	5	5	10	5	5	5	3	5	5	5	1	4	3	1	20	20	14	8	5	5
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	10	10	40	20	20	20	15	10	10	5	5	5	5	4	2	2	1	1	1	1	1	1	1	1	1	1	2	1	1
Zooplankton	60	45	50	40	40	25	40	20	15	30	15	10	25	5	8	8	5	4	9	4	1	0	2	1	4	14	5	20	9	9
Biomass	2.0	2.0	1.5	1.5	1.0	1.0	2.0	1.5	2.0	2.0	2.5	2.5	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	3.5	3.5	4.0	3.0	3.0	3.0	3.0	3.0	3.0	2.0

Table 18 cont'd

date	16-May			23-May			30-May			05-Jun			13-Jun			20-Jun			27-Jun			04-Jul			11-Jul			18-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																							1							
Dictyocha speculum														1	1		1						1	1				1	1	1
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid																			1	1	1							1		
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	6	4	3	3	3	2	2	3	3	4	4	4	3	6	4	2	4	3	4	4	2	5	3	3	4	3	3	5	6	4
Zooplankton																														
Amoeba																														
Appendicularian																														
Barnacle nauplius																														
Ciliate	6	7	6	7	9	4	4	3		6	4	2	1	4	6	7	10	8	9	10	10	8	6	7	8	7	4	9	8	5
Copepod																										1		1		
Nauplius																														
Pluteus																														
Rotifer																														
Tintinnid	3	1		3	3	1					1		1	2	2	1	2	2	3			2	2	2				2		
Zoea																														
other	1				1																									
Dominant Species/Group																														
name	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Pseudonitzschie spp.*	*Pseudonitzschie spp.*	*Pseudonitzschie spp.*	*Pseudonitzschie spp.*	*Pseudonitzschie spp.*	*Pseudonitzschie spp.*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	dinoflagellate	*Heterosigma akashiwo*	*Heterosigma akashiwo*	*Heterosigma akashiwo*	ciliates & tintinnids	ciliates	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Oxyphysis oxytoxoides*	dinoflagellates	*Skeletonema costatum*	ciliates & tintinnids	*Skeletonema costatum*	ciliates
count (cells/mL)	1200	1000	~400	~1000	~1400	~1200	~600	~460	~120	~340	~540	~220	~50	~50	~40	13000	1100	1200	~150	~50	~40	10000	21000	8000	~50	~250	~200	~70	~60	~20
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	55	55	60	55	50	65	85	90	90	50	75	75	15	10	5	1	1	1	10	5	5	65	70	75	30	30	40	5	30	10
Dinoflagellates	22	25	20	20	20	25	5	5	9	35	10	10	40	30	45	48	35	30	30	30	30	17	18	10	35	35	30	15	20	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	30	30	10	30	32	40	0	0	0	5	5	5	10	5	5	0	0	0
Other Flagellates	3	2	2	1	1	1	1	1	1	1	1	5	5	10	10	1	2	3	5	10	5	3	1	3	5	5	5	10	10	10
Zooplankton	20	18	18	24	29	9	9	4	0	14	14	10	10	20	30	20	30	26	55	55	60	10	6	7	20	25	20	70	40	60
Biomass	3.0	2.0	2.0	3.0	3.0	2.5	2.5	2.5	2.0	2.0	2.5	2.0	2.5	2.0	2.0	4.5	3.5	3.0	3.0	2.0	2.0	4.0	4.5	4.0	2.5	2.5	1.5	2.5	2.0	2.0

Table 18 cont'd

date	25-Jul			01-Aug			08-Aug			15-Aug			22-Aug			29-Aug			05-Sep			13-Sep			19-Sep			26-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads				1		1				1	1	1																		
Dictyocha speculum	1	1	1	1	1	1			1		1	1	1	1			1	1	1						1					
Dinobryon balticum										1							1													
Ebria tripartita	1		1												1															
Euglenoid																						1			1					
Phaeocystis pouchetii																														
Radiolarian																														
unid. Nanoflagellates	3	4	2	5	4	4	4	4	3	3	4	4	4	4	2	2	2	1	4	4	3	3	3	4	4	5	5	3	2	4
Zooplankton																														
Amoeba																														
Appendicularian	1						1																							
Barnacle nauplius					1																									
Ciliate	2	4	3	8	9	8	7	6	5	9	9	7	8	7	3	7	5	7	7	5	6	5	3	2	9	5	4	6	4	2
Copepod																														
Nauplius												1								1										
Pluteus																														
Rotifer																														
Tintinnid									1	1					1				1					1					1	
Zoea																														
other																														
Dominant Species/Group																														
name	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	ciliates	ciliates	*Chaetoceros spp.*	ciliates	*Chaetoceros spp.*	*Eucampia zoodiacus*	ciliates	*Chaetoceros spp.*	ciliates	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Chaetoceros convolutus*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	ciliates	*Dityium brightwellii*	*Dityium brightwellii*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Pseudonitzschia sp.*	*Thalassiosira spp.*	*Rhizosolenia setigera*	*Rhizosolenia setigera*
count (cells/mL)	660	~400	~100	~260	~60	~200	~60	~100	~30	~40	~80	~30	1900	1600	~300	204	239	183	~25	~80	~40	~40	~2	~2	~4	~5	~18	~40	~33	~28
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	75	70	50	25	25	40	35	45	50	35	35	20	70	70	80	80	90	90	60	80	85	5	65	80	35	45	55	55	85	80
Dinoflagellates	9	10	20	30	25	20	18	23	19	20	10	20	10	10	5	10	5	5	20	4	5	30	9	4	20	20	20	15	5	10
Raphidophytes	1	0	0	0	0	<1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	10	10	5	10	10	2	1	1	4	10	10	5	5	5	1	1	1	5	1	2	5	1	1	10	10	10	2	1	2
Zooplankton	5	10	20	40	40	30	45	30	30	40	45	50	15	15	10	9	4	4	15	15	8	60	25	15	35	25	15	28	9	8
Biomass	3.0	3.0	2.0	3.0	2.5	2.0	3.0	2.5	2.0	2.0	2.0	2.0	3.5	3.5	2.5	3.5	3.5	3.0	2.5	3.0	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.0	2.5

Table 18 cont'd

date	10-Oct			17-Oct			24-Oct			31-Oct			07-Nov			14-Nov			21-Nov			28-Nov			05-Dec		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																											
Cryptomonads																						1		1			
Dictyocha speculum		1	1	1	1	1			1	1		1	1	1													
Dinobryon balticum																											
Ebria tripartita																											
Euglenoid																											
Phaeocystis pouchetii																											
Radiolarian																											
unid. Nanoflagellates	3	5	3	4	3	2	4	3	4	3	4	4	4	3	4	3	3	4	3	2	3	6	5	3	3	3	5
Zooplankton																											
Amoeba																											
Appendicularian																											
Barnacle nauplius																											
Ciliate	5	6	5	5	6	4	8	7	7	9	7	9	8	3	3	5	2		1	2	1	7	5	2	2	3	3
Copepod																											
Nauplius																											
Pluteus																											
Rotifer								1															1				
Tintinnid	1											1	1														
Zoea																											
other		1																									
Dominant Species/Group																											
name	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros concavicorne*	*Chaetoceros spp.*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Ditylum brightwellii*	*Thalassiosira spp.*	*Ditylum brightwellii*	*Chaetoceros debilis*	dinoflagellates	dinoflagellates	diatoms	ciliates	ciliates	ciliates	ciliates & tintinnids	*Thalassiosira sp.*	ciliates	*Chaetoceros debilis*	ciliates
count (cells/mL)	~100	~150	~150	~30	~120	~26	~100	~8	~8	~10	~5	~12	~5	~10	~2	~30	~4	~5	~3	~3	~2	~20	~10	~3	~4	~25	~4
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	50	55	65	40	60	75	55	60	60	60	70	75	40	60	70	30	30	20	50	0	0	5	5	20	0	45	10
Dinoflagellates	20	15	15	25	15	10	15	20	15	10	15	10	30	15	10	20	40	60	0	30	0	15	20	40	20	20	30
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	10	5	5	10	5	5	2	5	5	1	2	5	5	5	5	10	20	30	20	50	30	20	20	20	10	10
Zooplankton	25	20	15	30	15	10	25	18	20	25	14	13	25	20	15	45	20	0	20	50	50	50	55	20	60	25	50
Biomass	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.0	2.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	2.0	1.5	1.5	1.0	1.5	1.0

Table 19 : Diatoms in Pretty Girl Cove samples.

date	10-Jun			19-Jun			26-Jun			03-Jul			17-Jul			24-Jul			31-Jul			07-Aug			14-Aug			21-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica				1																										1
Asteromphalus heptactis													1		1	1	1	1		1	1									
Bacteriastrum sp.																														
Biddulphia sp.																														
Ceraultalina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus				1		1			1																					
Chaetoceros sp.	1			7	5	6	6	7	7							1		1	2					1	1	1			1	1
Corethron hystrix																														
Coscinodiscus sp.			1									1												1						1
Cylindrotheca closterium					1					1							1		1	1		1	1							
Dactylisolen sp.														1			1							1						
Detonula pumila							1	1														1				1				
Ditylum brightwellii															1											1			1	
Eucampia zoodiacus						1																								
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata				1	1	1																			1		1	1	1	
Leptocylindrus danicus				1	1	1		1	1	1								1	1			1	1	1	1	1	1	1	1	1
Leptocylindrus minimus																		1												
Licmophora sp.																														
Melosira sp.																		1												
Navicula sp.				2	1	1	1	1							1				1											
Nitzschioid sp.				1	1	1	1	1	1										1		1		1	1			1			
Pleurosigma/ Gyrosigma sp.																1					1									
Rhizosolenia setigera					1	1	1		1																				1	
Rhizosolenia sp. (pointy)				1	1	1	1	1	1		1	1						1						1		1				
Rhizosolenia sp. (blunt)				1		1															1			1						
Rhizosolenia stolterfothii																													1	1
Skeletonema costatum	1			1	1	1	1	1	1	1			1	1	1	1		1	1	1	1	1		1			1			
Stephanopyxis sp.																														
Thalassionema sp.																		1	1			1								
Thalassiosira sp.	1			2	2	2	1	1	2		1				2		1	1		1		1	1	2		2	2		1	1

Table 19 cont'd

date	28-Aug			02-Sep			09-Sep			16-Sep			23-Sep			30-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																		
Achnanthes sp.																		
Amphiprorai Tropidoneis																		
Asterionella japonica																		
Asteromphalus heptactis		1							1									
Bacteriastrum sp.									1									
Biddulphia sp.									1									
Cerautelina sp.																		
Chaetoceros concavicorne																		
Chaetoceros convolutus																		
Chaetoceros sp.			1															
Corethron hystrix																		
Coscinodiscus sp.									1									
Cylindrotheca closterium								1										
Dactylisolen sp.									1									
Detonula pumila																		
Ditylum brightwellii			1														1	
Eucampia zoodiacus																		
Grammatophora sp.															1			
Hemiaulus sp.																		
Lauderia annulata																		
Leptocylindrus danicus	1		1					1	1									
Leptocylindrus minimus	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Licmophora sp.																		
Melosira sp.							1											
Navicula sp.	1																	
Nitzschioid sp.		1				1				1				1				
Pleurosigma/ Gyrosigma sp.																		
Rhizosolenia setigera																		
Rhizosolenia sp. (pointy)																		
Rhizosolenia sp. (blunt)																		
Rhizosolenia stolterfothii			1				1	1	1	1								
Skeletonema costatum																		1
Stephanopyxis sp.																		
Thalassionema sp.	1		1		1													
Thalassiosira sp.	1	1	1	1	2					1								

Table 20 : Dinoflagellates in Pretty Girl Cove samples.

date	10-Jun			19-Jun			26-Jun			03-Jul			17-Jul			24-Jul			31-Jul			07-Aug			14-Aug			21-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																												1		
Amphidinium sp.																	1	1				1								
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus				1																			1							
Ceratium lineatum			1	1	1	1		1	1	1				1						1			1	1		1		1	1	1
Ceratium pentagonum																														
Ceratium sp.																														1
Cochlodinium polykrikoides																							1	1	1	1		1	1	1
Cochlodinium sp.		1																												
Dinophysioid sp.					1	1					1						2		2	2	1	2	2	2	2	2			1	2
Diplopsalis sp.																						1	1	1	1					
Gonyaulacoid sp.				2	1	2								1	1		1	1		1	2	1		1	1			1	1	
Gymnodinioid sp.	4		2	3	6	4	5	4	4	7	3	2	8	7	6	12	9	5	12	9	7	12	9	10	8	6	6	7	9	4
Gymnodinium galatheanum																														
Gymnodinium sanguineum																														
Gyrodinium spirale-type	2		1		1	1	2	1		2	1	1			1	1	1	1	2	2	1	1	1	2	1	2	1			
Heterocapsa triquetra				1	1	1				1	1	1	1	1	1	1	1	1	1			1	1		1				1	
Noctiluca scintillans																													1	1
Noctilucoid sp.																														
Oxymhis marina																														
Oxyphysis oxytoxoides																			1				1							
Polykrikos sp.					1																									
Prorocentrum gracile													1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1
Prorocentrum micans																									1				1	
Prorocentrum sp.		1	1	1	1	1																								
Protoperidinioid sp.	1	1		3	2	2	3	7	4	3	2	1	7	3	3	8	7	7	9	7	8	9	8	9	9	9	4	9	7	6
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo													1				1	1	1				1	1				1		

Table 20 cont'd

date	28-Aug			02-Sep			09-Sep			16-Sep			23-Sep			30-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																		
Alexandrium sp.																		
Amphidinium sp.				2												1	1	
Ceratium divericatum																		
Ceratium furca																		
Ceratium fusus										1			1	1	1			
Ceratium lineatum										1			1	1	1	1		
Ceratium pentagonum																		
Ceratium sp.		1																
Cochlodinium polykrikoides				1	1	1		1			1		1			1		1
Cochlodinium sp.															1			
Dinophysioid sp.	1		1	2	2		2	2	2	1	1		1	1	2		1	1
Diplopsalis sp.																		
Gonyaulacoid sp.							2	1	1				2			1		
Gymnodinioid sp.	8	4	5	10	4	5	9	2	5	8	5	5	8	5	1	6	6	2
Gymnodinium galatheanum																		
Gymnodinium sanguineum														1				
Gyrodinium spirale-type	2		2	1	1	2	1	1			1		2			1	1	
Heterocapsa triquetra							1		1	1								
Noctiluca scintillans	1	1		1														
Noctilucoid sp.																		
Oxyrrhis marina				1	1	1	1											
Oxyphysis oxytoxoides										1						1		
Polykrikos sp.																		
Prorocentrum gracile	1			1	1				1	1		1	1			1	1	1
Prorocentrum micans				1			1			1			1	1	1	1	1	1
Prorocentrum sp.																		
Protoperidinioid sp.	9	5	7	7	8	3	10	10	8	8	5	2	10	3	2	8	4	3
Pyrocystis lunula																		
Raphidophytes																		
Heterosigma akashiwo				1			1			1				1	1			

Table 21 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Pretty Girl Cove samples.

date	10-Jun			19-Jun			26-Jun			03-Jul			17-Jul			24-Jul			31-Jul			07-Aug			14-Aug			21-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads								1	1	1	1			1				1											1	
Dictyocha speculum	1	1	1					1																		1				
Dinobryon balticum																														
Ebria tripartita															1	1			1						1	1				
Euglenoid						1				1																1				
Phaeocystis pouchetii																														
unid. Nanoflagellates	3	3	5	7	4	6	2	2	2	5	3	3	4	5	4	3	4	3	5	5	4	4	7	5	5	5	3	4	3	3
Zooplankton																														
Amoeba																									1	1		1		
Appendicularian																														
Ciliate	8	6	6	8	7	8	6	3	3	9	8	6	7	4	3	7	4	4	10	3	5	7	7	8	9	8	4	4	3	3
Copepod																			1											
Nauplius	1																	1				1			1					
Pluteus																														
Radiolarian				1																	1		1		1					
Rotifer																		1						1						
Tintinnid		1		1	1	1		1		1			2		1	1			1				2		1			1	1	
Zoea																											1			
other																														
Dominant Species/Group																														
name	ciliates	*Dictyocha speculum*	*Dictyocha speculum*	*Rhizosolenia alata*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	ciliates	*Thalassiosira aestivalis*	*Heterocapsa triquetra*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Skeletonema costatum*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	dinoflagellates	*Asterompahlus heptactis*	*Asterompahlus heptactis*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Thalassiosira spp.*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*
count (cells/mL)	~60	~12	~13	~80	~500	~500	~2000	1400	~220	~250	~10	~5	~400	~10	~900	~280	~280	~20	~400	~20	~14	~70	~160	~50	~500	~160	~20	15000	2900	2300
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	5	0	5	50	50	55	70	70	85	5	25	20	3	5	40	5	15	25	7	60	55	30	10	30	15	25	30	40	65	60
Dinoflagellates	30	5	20	30	30	25	20	23	10	35	30	30	75	55	30	70	70	60	70	30	35	50	65	40	40	45	35	55	30	35
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	35	35	5	5	5	1	2	1	10	10	10	1	10	10	5	5	5	2	2	2	5	5	5	15	15	15	1	1	1
Zooplankton	55	60	40	15	15	15	9	5	4	50	35	40	20	30	20	20	10	10	20	8	8	15	20	25	30	15	20	4	4	4
Biomass	3.0	2.0	2.0	3.0	3.0	3.0	3.5	3.5	3.0	2.5	2.0	1.5	3.5	2.0	2.0	3.0	3.0	2.5	3.0	2.5	2.5	2.0	3.0	2.5	3.5	3.0	2.5	3.5	3.0	2.5

Table 21 cont'd

date	28-Aug			02-Sep			09-Sep			16-Sep			23-Sep			30-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																		
Cryptomonads										1								
Dictyocha speculum			1			1				1					1	1		
Dinobryon balticum																		
Ebria tripartita	1		1	1		1	1	1								1		
Euglenoid																		
Phaeocystis pouchetii																		
unid. Nanoflagellates	3	3	4	3	4	3	5	5	2	4	3	2	5	3	2	6	6	4
Zooplankton																		
Amoeba																		
Appendicularian														1				
Ciliate	7	6	8	6	3	2	6	6	5	8	6		9	2		6	2	1
Copepod																		
Nauplius																		
Pluteus																		
Radiolarian																		
Rotifer				1														
Tintinnid				1						2	2							
Zoea																		
other									1									
Dominant Species/Group																		
name	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*
count (cells/mL)	19000	2200	12000	10000	3000	~180	23000	6800	2800	27000	1500	1400	37500	2200	2800	38000	1500	3800
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	60	70	75	30	65	25	55	50	50	50	30	50	40	40	60	60	60	50
Dinoflagellates	30	20	12	60	30	45	30	30	40	30	45	45	40	55	39	30	30	40
Raphidophytes	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	2	1	3	1	1	10	4	5	1	3	5	5	5	1	1	5	5	5
Zooplankton	8	9	10	9	4	20	10	15	9	17	20	0	15	4	0	5	5	5
Biomass	4.0	3.0	4.0	4.0	3.0	2.0	4.5	4.0	2.5	4.5	2.5	2.5	4.0	3.0	2.5	4.5	2.0	2.0

Table 22 : Diatoms in Gibson Cove samples.

date	10-Jun			19-Jun			26-Jun			03-Jul			17-Jul			24-Jul			31-Jul			07-Aug			14-Aug			21-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica																											1			1
Asteromphalus heptactis													1			1					1									
Bacteriastrum sp.																			1	1		1		1	1	1	1	1	1	1
Biddulphia sp.																														
Cerautalina sp.	1																										1			
Chaetoceros concavicorne																														1
Chaetoceros convolutus													1		3			1	6	5		3	2		2	2	4	4	1	6
Chaetoceros sp.																														
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium													1			1	1	1	1	1	1	1	1	1		1				
Dactylisolen sp.																											1			
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																														
Grammatophora sp.																														
Hemiaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus																														
Leptocylindrus minimus																										1		1		
Licmophora sp.																														
Melosira sp.																														
Navicula sp.							1		1						2		1			1					1		1			
Nitzschioid sp.					1				1			1	1		1								1		1					1
Pleurosigma/ Gyrosigma sp.																									1					
Rhizosolenia setigera										1		1	1		1											1				1
Rhizosolenia sp. (pointy)			1																											
Rhizosolenia sp. (blunt)																						1	1							
Rhizosolenia stolterfothii																											1	1	1	1
Skeletonema costatum				1	1		1	1		1		1	1		1	1										1	1			
Stephanopyxis sp.																														
Thalassionema sp.																									1			1		
Thalassiosira sp.	1	1	1	1	1							1	1		1			1						1			2		1	3

Table 22 cont'd

date	28-Aug			02-Sep			09-Sep			16-Sep			23-Sep			30-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																		
Achnanthes sp.																		
Amphiprora/ Tropidoneis																		
Asterionella japonica																		
Asteromphalus heptactis			1	1														
Bacteriastrum sp.	1	1		1														
Biddulphia sp.																		
Cerautalina sp.																		
Chaetoceros concavicorne			1															
Chaetoceros convolutus					1	1			1									
Chaetoceros sp.	2	2	5	1	4	4		1					2	1		5	2	2
Corethron hystrix																		
Coscinodiscus sp.																		
Cylindrotheca closterium						1	1											
Dactylisolen sp.					1											1		1
Detonula pumila																		
Ditylum brightwellii																		
Eucampia zoodiacus		1			1													
Grammatophora sp.																		
Hemiaulus sp.																		
Lauderia annulata																		
Leptocylindrus danicus	1		1		1													
Leptocylindrus minimus	1				1			1		1	1	1	1			1		1
Licmophora sp.																		
Melosira sp.																		
Navicula sp.			1							1								
Nitzschioid sp.				1	1													
Pleurosigma/ Gyrosigma sp.																		
Rhizosolenia setigera																		
Rhizosolenia sp. (pointy)																		
Rhizosolenia sp. (blunt)					1													
Rhizosolenia stolterfothii			1		1	1			1									
Skeletonema costatum	1	1	1		1	1			1			1				1	1	
Stephanopyxis sp.																		
Thalassionema sp.	1																	
Thalassiosira sp.		1	2		1	1		1	1		1	1	1		1		1	

Table 23 : Dinoflagellates in Gibson Cove samples.

date	10-Jun			19-Jun			26-Jun			03-Jul			17-Jul			24-Jul			31-Jul			07-Aug			14-Aug			21-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																												1		
Amphidinium sp.									1									1			1		1	1		1	1			
Ceratium divaricatum																														
Ceratium furca					1																									
Ceratium fusus																														
Ceratium lineatum				1	1	1		1	1		1	1					1				1					1				
Ceratium pentagonum				1		1																								
Ceratium sp.															1															
Cochlodinium polykrikoides																				1										1
Cochlodinium sp.									1											1										
Dinophysioid sp.			1		1	1			1						1			1		2										
Diplopsalis sp.																														
Gonyaulacoid sp.		1	1	2	1	2		1			2	1			1															
Gymnodinioid sp.	3	1	3	3	6	4	5	5	1	6	6	6	3	2	5	4	2	3	4	7	6	3	6	6	2	2	5	4	7	3
Gymnodinium galatheanum																														
Gyrodinium spirale-type	1		2		1	1		1	2			1	1	2	1		1	1			2		1						1	
Heterocapsa triquetra	1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					1			1	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.					1																									
Prorocentrum gracile													1			1	1	1	1	1	1	1			1	1	1	1	1	
Prorocentrum micans																														
Prorocentrum sp.	1	1	1	1	1	1																								
Protoperidinioid sp.	2	2	1	3	2	2		4	2	2	3	1	3	5	4	2	1	3	3	2	5	1	5			1	1	1	4	3
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																		1								1				

Table 23 cont'd

date	28-Aug			02-Sep			09-Sep			16-Sep			23-Sep			30-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																		
Alexandrium sp.																		
Amphidinium sp.					1											1		
Ceratium divaricatum																		
Ceratium furca																		
Ceratium fusus																		
Ceratium lineatum		1					1	1			1						1	
Ceratium pentagonum																		
Ceratium sp.																		
Cochlodinium polykrikoides							1	1		1								
Cochlodinium sp.			1			1		1						1				
Dinophysioid sp.										1			1		1	1	1	
Diplopsalis sp.																		
Gonyaulacoid sp.													1		1			
Gymnodinioid sp.	5	7	2	3	7	2	5	4	1	4	4	2	6	3	1	5	2	2
Gymnodinium galatheanum																		
Gyrodinium spirale-type		1				1	1	1		1	1		1	1		1		
Heterocapsa triquetra	1						1			1	1	1	1	1	1	1		
Noctiluca scintillans																		
Noctilucoid sp.																		
Oxyrrhis marina																		
Oxyphysis oxytoxoides				1														
Polykrikos sp.																		
Prorocentrum gracile	1	1	1	1	1		1			1		1	1					
Prorocentrum micans													1				1	
Prorocentrum sp.																		
Protoperidinioid sp.	3	1	1		4		3	2	1		4		1	2	1		2	
Pyrocystis lunula	1																	
Raphidophytes																		
Heterosigma akashiwo	1			1	1		1						1					

Table 24 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Gibson Cove samples.

date	10-Jun			19-Jun			26-Jun			03-Jul			17-Jul			24-Jul			31-Jul			07-Aug			14-Aug			21-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads							1	1		1	1	1				1	1	1												
Dictyocha speculum	1	1	1	1														1												
Dinobryon balticum																														
Ebria tripartita		1						1								1														
Euglenoid							1									1		1					1							
Phaeocystis pouchetii																														
unid. Nanoflagellates	4	4	4	5	3	4	4	5	5	4	5	4	5	4	5	6	5	3	4	6	4	4	4	3	5	4	4	5	4	3
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	3	3	5	4	4	5	6	5	5	5	5	2	7	5	1	3	3	3	3	6	5	3	4	1	3	5	3	3	5	2
Copepod																										1				
Nauplius		1			1														1											
Pluteus																														
Radiolarians																										1				
Rotifer							1			1									1				1							
Tintinnid				1	1	1						1	1	2	3					1								1	1	
Zoea																														
other																														
Dominant Species/Group																														
name	dinoflagellates	ciliates	*Prorocentrum minimum*	"b" nanoflagellate	"b" nanoflagellate	"b" nanoflagellate	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Skeletonema costatum*	*Heterocapsa triquetra*	*Skeletonema costatum*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	*Prorocentrum gracile*	*Dactyliosolen antarticus*	*Heterocapsa triquetra*	dinoflagellates	*Bacteriastrum delicatulum*	*Chaetoceros spp.*	*Dactyliosolen antarticus*	*Bacteriastrum delicatulum*	*Bacteriastrum delicatulum*	*Bacteriastrum delicatulum*	*Bacteriastrum delicatulum*	*Bacteriastrum delicatulum*	*Thalassiosira spp.*
count (cells/mL)	~10	~10	~50	10000	20000	10000	~40	~10	~10	~300	~40	~40	~900	~20	~600	~70	~10	~5	~90	~20	~180	~630	~20	~10	~880	~60	~100	~100	~300	~80
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	15	10	30	15	5	0	25	5	5	5	0	20	60	0	45	40	20	20	60	40	20	80	40	40	70	45	50	85	50	70
Dinoflagellates	40	30	35	35	40	50	45	65	55	70	70	65	20	65	30	45	60	40	30	45	70	10	30	40	20	30	35	10	40	25
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	1	0	0	0	0
Other Flagellates	20	20	10	40	45	40	20	10	10	5	10	5	5	5	5	10	10	15	2	5	2	5	5	10	5	4	5	2	2	1
Zooplankton	25	40	25	10	10	10	10	20	30	20	20	10	15	30	20	5	10	20	8	10	8	5	25	10	5	20	10	3	8	4
Biomass	1.5	1.5	2.5	3.5	3.5	3.0	2.0	1.5	1.5	3.0	2.0	2.0	3.0	1.5	2.5	2.5	2.0	1.5	3.0	2.5	2.5	3.0	2.0	1.5	3.0	2.0	2.5	3.0	2.5	2.5

Table 24 cont'd

date	28-Aug			02-Sep			09-Sep			16-Sep			23-Sep			30-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																		
Cryptomonads				1	1					1	1	1						
Dictyocha speculum			1										1					
Dinobryon balticum																		
Ebria tripartita	1		1										1					
Euglenoid																		
Phaeocystis pouchetii																		
unid. Nanoflagellates	3	3	4	4	4	4	2	4	2	5	4	4	1	4	3	5	4	2
Zooplankton																		
Amoeba								1										
Appendicularian													1					
Ciliate	7	6	8	6	6	3	6	6	1	8	5	2	6	5	5	6	7	2
Copepod											1							
Nauplius				1					1	1						1		
Pluteus																		
Radiolarians																	1	
Rotifer																		
Tintinnid				1	2		1	1			3	1	1	1	1			
Zoea																		
other																		
Dominant Species/Group																		
name	*Bacteriastrum delicatulum*	nanoflagellates	*Chaetoceros spp.*	*Prorocentrum gracile*	*Chaetoceros debilis*	*Skeletonema costatum*	dinoflagellates	ciliates & tintinnids	*Chaetoceros convolutus*	*Heterocapsa triquetra*	cryptomonad sp.	cryptomonad sp.	*Heterocapsa triquetra*	dinoflagellates	ciliates	*Chaetoceros spp.*	*Skeletonema costatum*	*Chaetoceros spp.*
count (cells/mL)	~70	~400	~100	~35	~220	~150	~20	~10	~7	~20	~500	~50	~30	~20	~10	~570	~60	~20
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	40	20	50	10	60	85	2	20	75	25	10	30	20	20	20	65	20	50
Dinoflagellates	25	25	15	60	15	5	50	35	10	40	30	20	45	40	35	15	30	20
Raphidophytes	0	0	0	1	1	0	5	0	0	0	0	0	1	0	0	0	0	0
Other Flagellates	10	35	25	9	9	5	5	5	5	10	30	30	4	5	5	5	10	5
Zooplankton	25	20	10	20	15	5	38	40	10	25	30	20	30	35	40	15	40	25
Biomass	3.0	2.5	2.0	2.0	2.5	2.5	1.5	1.5	1.5	2.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	1.5

Table 25 : Diatoms in Bedwell Sound samples.

date	12-Jun			19-Jun			27-Jun			3-Jul			10-Jul			18-Jul			25-Jul			1-Aug			6-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica			1												1	1	1	1												
Asteromphalus heptactis																							1	1	1					
Bacteriastrum sp.																1														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerautalina sp.	1	1	1																								1		1	
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.			1						1							4	5	5										3	3	1
Corethron hystrix																														
Coscinodiscus sp.																1		1												
Cylindrotheca closterium																														
Dactylisolen sp.																														
Detonula pumila																														
Ditylum brightwellii																														
Eucampia zoodiacus																						1	1	1	1	1	1	1	1	1
Grammatophora sp.																														
Herniaulus sp.																														
Lauderia annulata																														
Leptocylindrus danicus		1																												
Leptocylindrus minimus																									1					
Licmophora sp.																														
Melosira sp.																														
Navicula sp.					1						1						1											1		
Nitzschioid sp.			1												1	1	1	1	1						1				1	
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera																1	1	1	1		1				1	1	1	1	1	1
Rhizosolenia sp. (blunt)																									1	1			1	1
Rhizosolenia sp. (pointy)																														
Rhizosolenia stolterfothii																						1	1	1	1	1	1	1	1	1
Skeletonema costatum	1	1	1							1			1		1	1	1	1			1									1
Stephanopyxis sp.																														
Thalassionema sp.						1							1		1															
Thalassiosira sp.	1	1	1		1	1	1					1	1		1	2	1	2				1								

Table 25 cont'd

date	19-Aug			28-Aug			2-Sep			9-Sep			17-Sep			23-Sep			1-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																					
Achnanthes sp.																					
Amphiproral Tropidoneis																					
Asterionella japonica		1														1					
Asteromphalus heptachis																					
Bacteriastrum sp.	1																				
Biddulphia sp.													1		1		1	1	1	1	
Campylosira/Plagiogramma																					
Cerautalina sp.				1			1						1	1	1	1	1	1			
Chaetoceros concavicorne																					
Chaetoceros convolutus										1											
Chaetoceros sp.				1	1	1	5	8	1	2		2	5	4	6	4	4	3	4	3	3
Corethron hystrix																					
Coscinodiscus sp.	1								1						1						
Cylindrotheca closterium						1	1	1	1	1	1		1	1		1	1	1	1	1	1
Dactylisolen sp.																1		1			
Detonula pumila																					
Ditylum brightwellii		1								1			1	1	1	1	1	1	1	1	1
Eucampia zoodiacus	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Grammatophora sp.																					
Hemiaulus sp.																					
Lauderia annulata			1																		
Leptocylindrus danicus				1			1	1		1	1		1								
Leptocylindrus minimus							1			1	1	1	1		1	1	1	1	1	1	1
Licmophora sp.																					
Melosira sp.																					
Navicula sp.						1			1	1	1		1		1	2	1	1	1		1
Nitzschioid sp.							1	2	1				1	1	1	1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.																					
Rhizosolenia setigera		1	1																		
Rhizosolenia sp. (blunt)			1	1	1	1	1	1	1				1	1	1				1		1
Rhizosolenia sp. (pointy)																					
Rhizosolenia stolterfothii	1	1	1			1				1	1										
Skeletonema costatum			1										1	1	1	1	1	1	1	1	
Stephanopyxis sp.																		1			
Thalassionema sp.							1						1		1	1	1	1	1	1	1
Thalassiosira sp.	1			1		1			1	2	1	1	1	2	1	1	1	1	2	2	1

Table 26 : Dinoflagellates in Bedwell Sound samples.

date	12-Jun			19-Jun			27-Jun			3-Jul			10-Jul			18-Jul			25-Jul			1-Aug			6-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																					1					1				
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																							1							
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.						1																								
Dinophysioid sp.																										1		1	1	
Diplopsalis sp.																													1	
Gonyaulacoid sp.																							1	1						
Gymnodinioid sp.	1	3	2	2	3	1	1	2	2	2	4	4	1	3	2	5	3		7	9	7	10	10	8	5	6	5	6	7	8
Gymnodinium galatheanum																														
Gymnodinium sanguineum																														
Gyrodinium spirale-type		1		1									1	1	1	1			1	1	2	2	1	1	2	1	1			1
Heterocapsa triquetra																1			1					1		1		1	1	
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Polykrikos sp.																														
Prorocentrum gracile																1			1			1			1	1		1	1	1
Prorocentrum micans																														
Prorocentrum sp.		1		1	1																									
Protoperidinioid sp.	1	4	1	1		1					1		1	2	1	2			4	4	5	2	5	4	2	6	6	4	7	1
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																			1											

Table 26 cont'd

date	19-Aug			28-Aug			2-Sep			9-Sep			17-Sep			23-Sep			1-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																					
Alexandrium sp.																					
Amphidinium sp.								1											1		
Ceratium divericatum																					
Ceratium furca																					
Ceratium fusus													1		1		1				
Ceratium lineatum			1	1	1			1					1							1	
Ceratium pentagonum																					
Ceratium sp.																					
Cochlodinium polykrikoides			1	1	1				1												
Cochlodinium sp.	1													1							
Dinophysioid sp.	2	2	2	2	1	1	1	2						1		1	1				
Diplopsalis sp.																1					
Gonyaulacoid sp.				1				1			1					1	1		1		
Gymnodinioid sp.	8	8	7	7	7	6	9	11	7	10	5	4	5	8	4	6	4	3	9	4	4
Gymnodinium galatheanum																					
Gymnodinium sanguineum																	1		1	1	1
Gyrodinium spirale-type	1		1	2		2	2	1		1	1								1	1	1
Heterocapsa triquetra	1	1	1																		
Noctiluca scintillans							1		1								1				
Noctilucoid sp.																					
Oxyphysis oxytoxoides	1	1			1		1	1								1					
Oxyrrhis marina																					
Polykrikos sp.		1	1																		
Prorocentrum gracile	1	1	1	1	1	1		1	1	1	1							1		1	
Prorocentrum micans																1	1			1	1
Prorocentrum sp.																					1
Protoperidinioid sp.	4	5	5	5	1	4	5	9	4	3	3	1	9	6	6	7	5		9	5	4
Pyrocystis lunula																					
Raphidophytes																					
Heterosigma akashiwo	1			1	1		1	1	1	1									1	1	

Table 27 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Bedwell Sound samples.

date	12-Jun			19-Jun			27-Jun			3-Jul			10-Jul			18-Jul			25-Jul			1-Aug			6-Aug			13-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads										1	1	1	1	1	1	1	1		1	1	1									
Dictyocha speculum	1	1	1		1	1								1		1					1		1	1						
Dinobryon balticum																												1		
Ebria tripartita				1		1																								
Euglenoid													1		1	1	1		1										1	
Phaeocystis pouchetii																														
unid. Nanoflagellates	3	3	4	4	3	2	3	4	3	6	4	3	4	5	4	3	3	2	4	3	6	5	5	4	5	5	6	4	5	3
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	2	3	5	3	5		1		3	3	1	2	5	5	6	5	1	2	8	6	5	8	2	2	8	4	6	4	6	4
Copepod																														
Nauplius											1			1																
Pluteus																														
Radiolarians																														
Rotifer																							1							
Tintinnid		1		1															1			1			1		1	3		
Zoea																														
other																														
Dominant Species/Group																														
name	*Ceratulina bergonii*	*Ceratulina bergonii*	*Ceratulina bergonii*	*Prorocentrum minimum*	ciliates	*Thalassiosira sp.*	*Thalassiosira sp.*	dinoflagellates	ciliates	cryptomonad sp.	cryptomonad sp.	cryptomonad sp.	cryptomonad sp.	*Katodinium rotundatum*	*Katodinium rotundatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Mesodinium rubrum*	"t" nanoflagellate	*Gymnodinium sp.*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*
count (cells/mL)	~50	3000	300	~40	~20	~4	~5	~4	~4	~1200	~150	~40	~900	1800	~1000	1600	2800	3000	~20	2400	~10	1040	~80	~140	1000	~320	~210	2000	2000	~750
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	50	85	65	0	5	45	55	0	10	5	5	10	20	0	10	55	80	95	5	0	5	70	60	60	75	75	75	75	70	75
Dinoflagellates	20	10	10	55	35	35	15	60	30	5	20	25	5	50	40	20	10	0	35	20	45	18	30	30	10	15	10	18	20	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	15	2	5	20	10	20	15	40	20	80	55	40	40	30	30	10	5	1	19	60	25	2	5	5	2	5	5	2	2	1
Zooplankton	15	3	20	25	50	0	15	0	40	10	20	25	35	20	20	15	5	4	40	20	25	10	5	5	13	5	10	5	8	4
Biomass	1.5	4.5	3.5	2.0	1.5	1.5	1.0	1.0	1.0	3.5	1.5	1.5	2.5	3.5	3.0	3.5	3.5	3.0	2.5	3.0	2.5	3.5	2.5	2.5	3.5	3.0	3.0	4.0	4.0	3.0

Table 27 cont'd

date	19-Aug			28-Aug			2-Sep			9-Sep			17-Sep			23-Sep			1-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																					
Cryptomonads							1	1	1	1		1			1						
Dictyocha speculum					1		1	1	1	1							1				
Dinobryon balticum																					
Ebria tripartita					1																
Euglenoid			1				1		1	1				1		1			1		
Phaeocystis pouchetii																					
unid. Nanoflagellates	4	3	3	5	5	3	6	6	5	5	4	3	2	2	3	3	2	4	6	5	4
Zooplankton																					
Amoeba																					
Appendicularian													1								
Ciliate	3	3	5	4	7	5	8	10	5	9	5		7	3	4	5	2	2	6	3	3
Copepod																					
Nauplius	1								1				1			1					
Pluteus																					
Radiolarians													1	1							
Rotifer												1									
Tintinnid			1		2														1		
Zoea																					
other																					
Dominant Species/Group																					
name	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*dinoflagellates*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Dityium brightwellii*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Eucampia zoodiacus*
count (cells/mL)	1300	1000	1000	~50	~50	~20	2500	3900	~520	~700	~100	~60	5000	1200	1500	~580	~40	~120	~180	~100	~30
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	75	85	80	30	40	25	65	55	60	50	40	60	85	80	85	70	70	85	60	45	65
Dinoflagellates	15	10	15	50	30	40	10	20	18	20	30	30	9	10	10	20	25	10	20	40	20
Raphidophytes	1	0	0	1	1	0	5	2	2	10	0	0	0	0	0	0	0	0	1	1	0
Other Flagellates	2	1	1	9	9	5	10	8	10	5	5	5	1	1	1	1	1	1	4	4	5
Zooplankton	7	4	4	10	20	30	10	15	10	15	25	5	5	9	4	9	4	4	15	10	10
Biomass	4.0	3.5	3.5	3.0	2.5	2.0	4.0	4.0	2.5	3.5	2.0	2.0	4.0	3.5	3.0	3.5	3.0	2.5	3.0	2.5	2.0

Table 28 : Diatoms in Indian Bay samples.

date	14-May			27-May			25-Jun			01-Jul			08-Jul			15-Jul			22-Jul			29-Jul			05-Aug			12-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.							1																							
Amphiprora/ Tropidoneis																														
Asterionella japonica																1	1	1		1	1		1	1				1	1	
Asteromphalus heptactis																										1			1	1
Bacteriastrum sp.																														
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerataulina sp.				1																1				1						
Chaetoceros concavicorne																														
Chaetoceros convolutus																														
Chaetoceros sp.			1		1	1			1					4		5	9	7	1	8	9	5	4	2			1	2	3	1
Corethron hystrix																														
Coscinodiscus sp.																				1									1	
Cylindrotheca closterium														1							1			1	1					
Dactyliosolen sp.																						1								
Detonula pumila																				1										
Ditylum brightwellii																	1			1	1	1							1	1
Eucampia zoodiacus																						1	1		1	1			1	
Grammatophora sp.																				1										
Hemialus sp.																														
Lauderia annulata																	1	1												
Leptocylindrus danicus				1																		1			1	1	1	1	1	
Leptocylindrus minimus																													1	
Licmophora sp.							1	1	1	1	1		1		1	1	1		1	1	1		1		1					1
Melosira sp.																			1	1										
Navicula sp.	1		1					1	1			1			1		1	1		1	2	1			1		1		1	1
Nitzschioid sp.			1				1	1						1	1	1	1	1		1	1							1		
Pleurosigma/ Gyrosigma sp.																				1										1
Rhizosolenia setigera														1		1	1	1	1	1	1	1	1	1						1
Rhizosolenia sp. (pointy)															1															
Rhizosolenia sp. (blunt)																													1	1
Rhizosolenia stolterfothii																										1	1		1	1
Skeletonema costatum				1	1	1	1		1					1	1	1	1	1		1	1	1	1	1	1	1		1	1	1
Stephanopyxis sp.																														
Thalassionema sp.									1						1					1	1	1	1	1			1	1		
Thalassiosira sp.		1					1			1	1	1	1	1		2	2	2	1	3	3	1		1				2	2	2

Table 28 cont'd

date	19-Aug			26-Aug			02-Sep			09-Sep			16-Sep			23-Sep			30-Sep			08-Oct			05-Nov			11-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica		1	1																											
Asteromphalus heptactis			1																	1										
Bacteriastrum sp.				1					1																	1				
Biddulphia sp.																														
Campylosira/Plagiogramma																														
Cerataulina sp.																														
Chaetoceros concavicorne																														
Chaetoceros convolutus						1		1	1			1																		
Chaetoceros sp.	7	5	7	4	3	4	4	1		1		2	3	1	1			1	1				1	1	1	3	1	1		
Corethron hystrix									1																					
Coscinodiscus sp.						1				1									1							1				
Cylindrotheca closterium	1	1	1			1						1																		
Dactyliosolen sp.	1	1		1		1	1	1	1		1	1	1		1								1							
Detonula pumila																														
Ditylum brightwellii	1	1	1		1	1													1		1		1	1	1	1	1			
Eucampia zoodiacus	1	1		1	1	1		1	1		1														1					
Grammatophora sp.																										1	1			
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1			1		1	1	1			1									1	1	1	1				1	
Leptocylindrus minimus	1	1	1			1		1					1		1			1	1	1	1	1	1	1						
Licmophora sp.			1										1																1	
Melosira sp.																									1					1
Navicula sp.			1			1			1					1																
Nitzschioid sp.	1		1	1							1						1	1												
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera	1	1	1	1		1			1											1		1	1		1	1	1	1		
Rhizosolenia sp. (pointy)																														
Rhizosolenia sp. (blunt)			1			1			1		1	1							1											
Rhizosolenia stolterfothii	1	1	1	1	1	1	1	1	1		1																			
Skeletonema costatum	1	1	1											1	1							1								
Stephanopyxis sp.																														
Thalassionema sp.	1		1																							1				
Thalassiosira sp.	2	2	2	1	1	1	1	1	2	1	1	1			1	1	1			1		1	2	1			1			1

Table 28 cont'd

date	18-Nov			25-Nov		
depth	1m	5m	10m	1m	5m	10m
Diatoms						
Achnanthes sp.						
Amphiprora/ Tropidoneis						
Asterionella japonica						
Asteromphalus heptactis						
Bacteriastrum sp.						
Biddulphia sp.						
Campylosira/Plagiogramma						
Cerautalina sp.						
Chaetoceros concavicorne						
Chaetoceros convolutus						
Chaetoceros sp.						
Corethron hystrix						
Coscinodiscus sp.						
Cylindrotheca closterium						
Dactyliosolen sp.						
Detonula pumila						
Ditylum brightwellii						
Eucampia zoodiacus						
Grammatophora sp.						
Hemialus sp.						
Lauderia annulata						
Leptocylindrus danicus						
Leptocylindrus minimus						
Licmophora sp.						
Melosira sp.						
Navicula sp.					1	
Nitzschioid sp.						
Pleurosigma/ Gyrosigma sp.						
Rhizosolenia setigera						
Rhizosolenia sp. (pointy)						
Rhizosolenia sp. (blunt)						
Rhizosolenia stolterfothii						
Skeletonema costatum						
Stephanopyxis sp.						
Thalassionema sp.						
Thalassiosira sp.	1					

Table 29 : Dinoflagellates in Indian Bay samples.

date	14-May			27-May			25-Jun			01-Jul			08-Jul			15-Jul			22-Jul			29-Jul			05-Aug			12-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																														
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum																												1	1	
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																														
Dinophysioid sp.																														
Diplopsalis sp.	1																													
Gonyaulacoid sp.				1	1																									
Gymnodinioid sp.	1	1	1	3			2	3	3	1			4	3	3	3	3	1	1	3		4	5	3	2	4	2	1	2	5
Gymnodinium galatheanum																														
Gymnodinium sanguineum																														
Gyrodinium spirale - type																				1	2			1						
Heterocapsa triquetra													1																	
Noctiluca scintillans																				1										
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile																			1	1		1	1		1		1			
Prorocentrum micans																														
Prorocentrum minimum																			1	1										
Prorocentrum sp.																														
Protoperidinioid sp.					1	1							2		1	2			2	4		1	2	3	1	2	1	2	3	2
Pyrocystis lunula																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 29 cont'd

date	19-Aug			26-Aug			02-Sep			09-Sep			16-Sep			23-Sep			30-Sep			08-Oct			05-Nov			11-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.					1																			1						1
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																														
Ceratium lineatum	1	1	1			1		1	1					1								1				1		1	1	
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides				1																										
Cochlodinium sp.																														
Dinophysioid sp.																				1		1								
Diplopsalis sp.											1																			
Gonyaulacoid sp.	1	1					1							1																
Gymnodinioid sp.	5	4	2	3	1	1	4	3	5	3	2	3	2	8	4	3	2	2	6	5	2	2	3	2	1		1	1		2
Gymnodinium galatheanum																														
Gymnodinium sanguineum																1			1											
Gyrodinium spirale - type	1											1																1		
Heterocapsa triquetra																														
Noctiluca scintillans					1																		1							1
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																														
Prorocentrum gracile		1							1																					
Prorocentrum micans																						1			1	1	1	1	1	1
Prorocentrum minimum																														
Prorocentrum sp.		1		1			1																							
Protoperidinioid sp.	4	6			2		1	4	3		1	2		3	1	3		2	7	2		2	2	1	6	2	2	1	1	
Pyrocystis lunula			1	1																										
Raphidophytes																														
Heterosigma akashiwo	1							1			1			1			1													

Table 29 cont'd

date	18-Nov			25-Nov		
depth	1m	5m	10m	1m	5m	10m
Dinoflagellates						
Alexandrium sp.						
Amphidinium sp.						
Ceratium divaricatum						
Ceratium furca						
Ceratium fusus						
Ceratium lineatum					1	
Ceratium pentagonum						
Ceratium sp.						
Cochlodinium polykrikoides						
Cochlodinium sp.						
Dinophysioid sp.						
Diplopsalis sp.						
Gonyaulacoid sp.						
Gymnodinioid sp.	1			1		
Gymnodinium galatheanum						
Gymnodinium sanguineum						
Gyrodinium spirale - type						
Heterocapsa triquetra						
Noctiluca scintillans						
Noctilucoid sp.						
Oxyrrhis marina						
Oxytoxum sp.						
Polykrikos sp.						
Prorocentrum gracile						
Prorocentrum micans	1					
Prorocentrum minimum						
Prorocentrum sp.						
Protoperidinioid sp.		1		1		
Pyrocystis lunula						
Raphidophytes						
Heterosigma akashiwo						

Table 30 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Indian Bay samples.

date	14-May			27-May			25-Jun			01-Jul			08-Jul			15-Jul			22-Jul			29-Jul			05-Aug			12-Aug		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads										1	1	1	1			1	1		1	1	1	1	1						1	1
Dictyocha speculum	1		1	1	1	1		1			1						1												1	1
Dinobryon balticum																														
Ebria tripartita																			1			1					1			
Euglenoid																			1			1						1		
Phaeocystis pouchetii																														
unid. Nanoflagellates	2	4	4	3	4	2	6	5	6	3	5	2	3	3	2	5	4	4	4	3	3	4	4	3	7	5	5	4	6	5
Zooplankton																														
Appendicularian																1														
Ciliate	2	1	2	3			5	2	3	3	2	3	2	2	1	3			5	6	5	6	8	3	4		3	4	2	4
Copepod																														
Nauplius																						1								
Pluteus																														
Radiolarian																												1		
Rotifer																									1					
Tintinnid									1				1							1		2	1					1		
Zoea																														
other																														
Dominant Species/Group																														
name	*Dictyocha speculum*	*Thalassiosira sp.*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Dictyocha speculum*	*Licmophora sp.*	diatoms	diatoms	cryptomonad sp.	cryptomonad sp.	ciliates	cryptomonad sp.	*Chaetoceros spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	dinoflagellates	*Eucampia zoodiacus*	*Eucampia zoodiacus*	*Rhizosolenia stolterfothii*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*
count (cells/mL)	~20	~10	~2	~55	~16	~36	~20	~7	~15	~160	~40	~5	~100	~400	~80	1600	2000	~800	~10	4400	2600	6400	~800	~20	~10	~25	~6	~200	~150	~100
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	10	70	30	5	5	15	40	40	40	10	20	20	10	70	75	75	95	95	15	85	93	80	45	35	20	50	30	50	60	60
Dinoflagellates	20	10	10	5	35	10	10	20	15	20	0	0	30	10	18	10	3	3	30	5	2	5	25	40	25	30	20	20	20	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	50	10	40	85	60	75	30	30	25	40	60	20	40	10	2	5	2	2	20	2	1	2	5	5	25	20	20	10	10	10
Zooplankton	20	10	20	5	0	0	20	10	20	30	20	60	20	10	5	10	0	0	35	8	4	13	25	20	30	0	30	20	10	10
Biomass	1.5	1.5	1.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.5	2.5	1.5	2.0	3.5	3.0	1.5	4.0	3.0	4.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0	2.0

Table 30 cont'd

date	19-Aug			26-Aug			02-Sep			09-Sep			16-Sep			23-Sep			30-Sep			08-Oct			05-Nov			11-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads		1	1				1	1	1				1	1	1	1	1	1	1		1									
Dictyocha speculum			1		1	1			1								1													
Dinobryon balticum																														
Ebria tripartita				1																										
Euglenoid	1		1	1	1														1											
Phaeocystis pouchetii																														
unid. Nanoflagellates	4	4	4	4	3	3	2	4	3	3	4	3	5	6	4	5	5	2	4	2	3	2	2	3	2	2	2	4	3	3
Zooplankton																														
Appendicularian		1																												
Ciliate	6	4	3	2	2	4	1	4		2			3	7	5	4	2	1	7	4		1	1	1	4	3		5	3	3
Copepod																														
Nauplius																													1	1
Pluteus																														
Radiolarian															1						1									
Rotifer																														
Tintinnid	1			1															1											
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Dactyliosolen antarcticus*	*Rhizosolenia stolterfothii*	*Rhizosolenia stolterfothii*	*Dactyliosolen antarcticus*	*Dactyliosolen antarcticus*	*Rhizosolenia stolterfothii*	*Leptocylindrus danicus*	*Rhizosolenia stolterfothii*	*Chaetoceros convolutus*	*Chaetoceros spp.*	cryptomonad sp.	ciliates	dinoflagellates	cryptomonad sp.	dinoflagellates	dinoflagellates	dinoflagellates	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Prorocentrum micans*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Prorocentrum micans*	*Prorocentrum micans*	dinoflagellates
count (cells/mL)	8000	4600	1300	~80	~50	~100	~50	~60	~130	~4	~8	~8	~100	~400	~10	~20	~200	~10	~90	~30	~160	~420	~230	~200	~20	~10	~18	~30	~10	~7
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	85	90	95	70	80	89	60	55	80	80	95	95	50	10	20	5	25	20	20	20	40	60	60	60	50	55	60	10	10	20
Dinoflagellates	10	7	2	10	10	3	30	25	15	10	4	4	10	30	25	45	20	40	40	60	30	30	30	30	40	35	39	75	70	40
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	1	1	1	15	5	3	5	5	5	2	1	1	30	25	20	30	30	20	10	1	20	5	5	5	1	1	1	1	5	5
Zooplankton	4	2	2	5	5	5	5	15	0	8	0	0	10	30	35	20	24	20	30	19	10	5	5	5	9	9	0	14	15	35
Biomass	3.5	3.5	3.0	1.5	2.5	2.5	2.0	2.0	2.5	2.0	2.5	2.5	2.0	2.5	1.5	1.5	1.5	1.5	2.5	1.5	1.5	2.5	2.0	1.5	2.0	2.0	2.0	2.0	1.5	1.5

Table 30 cont'd

date	18-Nov			25-Nov		
depth	1m	5m	10m	1m	5m	10m
Other Flagellates						
Cryptomonads						
Dictyocha speculum						
Dinobryon balticum						
Ebria tripartita						
Euglenoid						
Phaeocystis pouchetii						
unid. Nanoflagellates	4	4		4	3	
Zooplankton						
Appendicularian						
Ciliate	1			1	3	
Copepod						
Nauplius						
Pluteus						
Radiolarian						
Rotifer						
Tintinnid						
Zoea						
other						
Dominant Species/Group						
name	*Thalassiosira subtilis*	nothing dominant	no sample	nanoflagellates	ciliates	no sample
count (cells/mL)	~7			~50	~3	
% constituent	110	100	100	100	100	100
Diatoms	60	0	0	0	10	0
Dinoflagellates	30	20	50	30	25	90
Raphidophytes	0	0	0	0	0	0
Other Flagellates	10	80	50	50	30	10
Zooplankton	10	0	0	20	35	0
Biomass	1.0	1.0	1.0	1.0	1.0	1.0

Table 31 : Diatoms in Charlie's Place samples.

date	22-May			29-May			5-Jun			12-Jun			19-Jun			26-Jun			3-Jul			10-Jul			17-Jul			24-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis																														
Asterionella japonica															1			1								1		1	1	
Asteromphalus heptactis																												1		
Bacteriastrum sp.		1	1						1							1	1												1	
Biddulphia sp.																														
Campylosira/Plagiogramma																												1		
Cerautalina sp.															1															1
Chaetoceros concavicorne																														
Chaetoceros convolutus		1												1				1												1
Chaetoceros tenuissimus																														
Chaetoceros sp.	3	2	4	1			1		1	1			3	3	4	6	6	6	4	2	1	3	2	4	5	4	4	4	5	6
Corethron hystrix																														
Coscinodiscus sp.																														
Cylindrotheca closterium																	1						1	1						1
Dactyliosolen sp.																		1				1			1					
Detonula pumila																	1													
Dityium brightwellii																													1	
Eucampia zoodiacus																									1	1	1	1	1	1
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus									1					1	1		1	1					1	1	1	1	1		1	1
Leptocylindrus minimus																						1				1	1	1	1	
Licmophora sp.							1																							
Melosira sp.																														
Navicula sp.			1							1					1			1							1		1			1
Nitzschioid sp.		2	1										1	1	1	1	1	1				1			1	1	1	1	1	1
Pleurosigma/ Gyrosigma sp.					1								1																	
Rhizosolenia setigera													1	1	1	1	1	1							1	1	1	1	1	1
Rhizosolenia sp. (pointy)		1		1	1	1	1		1				1	1	1		1	1			1								1	1
Rhizosolenia sp. (blunt)																														
Rhizosolenia stolterfothii																									1	1		1	1	1
Skeletonema costatum	1	1	1							1			1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1
Stephanopyxis sp.																										1	1			1
Thalassionema sp.							1	1																		1	1		1	
Thalassiosira sp.	1	1	1												1		1	1		1						1	1		1	1

Table 31 cont'd

date	31-Jul			11-Aug			14-Aug			21-Aug			28-Aug			4-Sep			12-Sep			18-Sep			25-Sep			2-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis						1																								1
Asterionella japonica		1	1			1				1	1	1																		
Asteromphalus heptactis																														
Bacteriastrum sp.						1						1		1																
Biddulphia sp.			1																											1
Campylosiral Plagiogramma																														1
Cerautalina sp.					1	1				1	1	1		1																
Chaetoceros concavicorne																														
Chaetoceros convolutus	1		1																											
Chaetoceros tenuissimus																														
Chaetoceros sp.	2	3	4	1		3	3	1	2	8	3	7		1	2							1						1		
Corethron hystrix																														
Coscinodiscus sp.												1		1																
Cylindrotheca closterium		1	1			1			1	1		1			1		1													1
Dactylisolen sp.			1							1		1																		
Detonula pumila										1																				
Ditylum brightwellii			1		1	1				1		1																		
Eucampia zoodiacus	1		1			1							1	1	1		1	1												
Grammatophora sp.																														1
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1		1	1			1	1		1				1	1	1												1
Leptocylindrus minimus							1				1	1						1	1			1	1	1	1	1	1	1	1	1
Licmophora sp.			1			1		1																						
Melosira sp.																														
Navicula sp.											1																		1	
Nitzschioid sp.	1	1	1	1		1				1	1	1																	1	1
Pleurosigma/ Gyrosigma sp.								1																						
Rhizosolenia setigera	1	1	1	1	1	1																								
Rhizosolenia sp. (pointy)										1																				
Rhizosolenia sp. (blunt)					1	1					1	1													1					
Rhizosolenia stolterfothii	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1														
Skeletonema costatum	1	1	1	1	1	1				1	1	1		1					1							1	1	1	1	1
Stephanopyxis sp.		1	1																											
Thalassionema sp.		1	1	1	1	1	1			1	1	1																		
Thalassiosira sp.	2	2	2	2	2	3	1	1	2	2	2	3	2	2	2	1	2		1	1	1			1				1		1

Table 31 cont'd

date	9-Oct			16-Oct			23-Oct			30-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms												
Achnanthes sp.												
Amphiprora/ Tropidoneis												
Asterionella japonica												
Asteromphalus heptactis							1		1			
Bacteriastrum sp.												
Biddulphia sp.												
Campylosira/Plagiogramma												
Cerautaline sp.												
Chaetoceros concavicorne												
Chaetoceros convolutus	1											
Chaetoceros tenuissimus												
Chaetoceros sp.	4	5	4	7	7	5	3	3	3	3		1
Corethron hystrix												
Coscinodiscus sp.			1		1							
Cylindrotheca closterium		1	1			1		1		1		1
Dactylisolen sp.												
Detonula pumila				1		1			1			
Ditylum brightwellii			1	1					1			
Eucampia zoodiacus			1		1			1	1			
Grammatophora sp.												
Hemialus sp.												
Lauderia annulata												
Leptocylindrus danicus	1	1	1	1	1	1	1	1	1			
Leptocylindrus minimus	1	1	1	1	1	1	1	1	1	1	1	1
Licmophora sp.												
Melosira sp.												
Navicula sp.									1	1		1
Nitzschioid sp.	1	1	1	1	1	1	2	2	2	1	1	1
Pleurosigma/ Gyrosigma sp.												
Rhizosolenia setigera	1	1	1	1	1	1	1	1	1			
Rhizosolenia sp. (pointy)												
Rhizosolenia sp. (blunt)	1	1	1	1	1	1		1	1	1		1
Rhizosolenia stolterfothii	1	1	1	1		1						
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1
Stephanopyxis sp.												
Thalassionema sp.	1	1		1	1	1	1			1	1	1
Thalassiosira sp.	3	2	1	2	2	2	1	1	2	1	1	2

Table 32 : Dinoflagellates in Charlie's Place samples.

date	22-May			29-May			5-Jun			12-Jun			19-Jun			26-Jun			3-Jul			10-Jul			17-Jul			24-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.													1	1																
Amphidinium sp.																													1	
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																		1												
Ceratium lineatum				1	1	1		1						1	1		1	1	1	1	1			1		1	1			1
Ceratium pentagonum																														
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.									1								1								1					
Dinophysioid sp.												1					1		1					1	1	1				1
Diplopsalis sp.													1	1																
Gonyaulacoid sp.	1		1	1	1	1		1	1						1		1	1		1	1	1		1	1	1	1			1
Gymnodinioid sp.	3	5	6	5	4	5	3	5	6	4	3	4	7	8	6	7	6	4	5	5	3	5	1	5	6	7	7	7	9	9
Gymnodinium galatheanum																														
Gymnodinium sanguineum																														
Gyrodinium spirale-type	2		1	1			1		1	2			1	2	2	2								1		1		2	3	2
Heterocapsa triquetra	1						1						1	1	1	1	1	1	1		1		1				1	1	1	1
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyphysis oxytoxoides																														
Oxyrrhis marina																														
Oxytoxum sp.																														
Polykrikos sp.																							1							
Prorocentrum gracile						1						1	1	1	1	1	1	1	1		1	1	1		1	1	1	1	1	1
Prorocentrum micans																														
Prorocentrum sp.													1	1				1												
Protoperidinioid sp.	5	1	1	3	1	2	4	3		1	3	2	8	6	6	2	3	1	4	3		4	3	2	4	3	3	2	6	3
Pyrocystis lunula		1																												
Torodinium robustum																														
Raphidophytes																														
Heterosigma akashiwo																									1	1		1	1	1

Table 32 cont'd

date	31-Jul			11-Aug			14-Aug			21-Aug			28-Aug			4-Sep			12-Sep			18-Sep			25-Sep			2-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.												1		1								1						1		
Ceratium divaricatum																														
Ceratium furca																														
Ceratium fusus																			1		1	1				1				
Ceratium lineatum		1	1		1	1		1	1	1				1	1	1	1	1											1	
Ceratium pentagonum																														
Ceratium sp.			1	1																										
Cochlodinium polykrikoides						1		1	1	1	1	1	1	1		1	1	1	1			1	1	1	1	1	1	1		1
Cochlodinium sp.																							1						1	
Dinophysioid sp.			2		2		2	1	2	1	2		1	2	2	1	1	1	2	1	1	2	1	1						
Diplopsalis sp.																														
Gonyaulacoid sp.									1				1						1				1		1					
Gymnodinioid sp.	9	7	6	9	10	10	7	7	9	5	5	5	12	8	8	7	9	7	6	5	4	8	4	5	6	5	2	5	4	3
Gymnodinium galatheanum																														
Gymnodinium sanguineum																						1	1	1	1	1	1	1		1
Gyrodinium spirale-type	1	2	2		1	1		1	1			2		2	3	2	1				1				2			1	1	
Heterocapsa triquetra	1	1	1	1	1			1	1	1	1	1	1	1		1	1	1	1	1		1		1	1	1	1	1	1	1
Noctiluca scintillans																					1	1								
Noctilucoid sp.																														
Oxyphysis oxytoxoides										1							1	1	1		1	1	1	1	1					
Oxyrrhis marina																1		1				1	1	1						
Oxytoxum sp.																														
Polykrikos sp.																			1	1	1									
Prorocentrum gracile	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1			1		1		1	1
Prorocentrum micans													1			1	1					1								
Prorocentrum sp.																														
Protoperidinioid sp.	6	7	8	9	7	7	3	5	7	6	6	4	6	8	8	8	9	2		1	2	5	3	3	9	3	3	2	2	2
Pyrocystis lunula																														
Torodinium robustum																		1												
Raphidophytes																														
Heterosigma akashiwo	1				1				1		1					1	1	1				1	1	1	1	1	1	1	1	1

Table 32 cont'd

date	9-Oct			16-Oct			23-Oct			30-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates												
Alexandrium sp.												
Amphidinium sp.									1	1		
Ceratium divaricatum												
Ceratium furca							1	1				
Ceratium fusus		1										
Ceratium lineatum	1						1	1	1	1	1	1
Ceratium pentagonum												
Ceratium sp.												
Cochlodinium polykrikoides	1	1	1	1		1	1	1	1	1	1	
Cochlodinium sp.		1							1			
Dinophysioid sp.	2	1	1	1		1	1		1	1		
Diplopsalis sp.								1		1		
Gonyaulacoid sp.		1								1		
Gymnodinioid sp.	10	10	5	8	8	3	10	7	8	8	10	6
Gymnodinium galatheanum												
Gymnodinium sanguineum	1						1	1	1	1	1	1
Gyrodinium spirale-type	1	1	2	1	2	1	2	1	1	2	1	
Heterocapsa triquetra												
Noctiluca scintillans												
Noctilucoid sp.												
Oxyphysis oxytoxoides							1					
Oxyrrhis marina												
Oxytoxum sp.												
Polykrikos sp.							1					
Prorocentrum gracile	1						1		1			
Prorocentrum micans	1	1					1	1	1	1	1	1
Prorocentrum sp.												
Protoperidinioid sp.	5	2	1	3	4	2	8	5	3	7	3	
Pyrocystis lunula												
Torodinium robustum												
Raphidophytes												
Heterosigma akashiwo												

Table 33 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Charlie's Place samples.

date	22-May			29-May			5-Jun			12-Jun			19-Jun			26-Jun			3-Jul			10-Jul			17-Jul			24-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																1	1	1		1	1	1			1	1	1	1	1	1
Dictyocha speculum		1					1	1					1	1	1									1	1					
Dinobryon balticum																														
Ebria tripartita	1						1			1	1	1				1														
Euglenoid																1			1	1	1							1	1	
Phaeocystis pouchetii																														
unid. Nanoflagellates	4	5	4	4	3	3	6	7	5	6	5	4	5	3	5	3	3	6	5	4	4	5	2	5	4	3	5	6	3	5
Zooplankton																														
Appendicularian																														
Ciliate	7	6	5	5	6	7	7	6	5	4	6	6	5	5	5	4	7	7	6	5	3	1	4	4	8	7	4	8	4	5
Copepod																														
Nauplius	1	1																												
Pluteus																														
Radiolarians					1																									
Rotifer													1																	
Tintinnid		1	1									1	1									1	2	1	2	1		1	1	
Zoea																														
other																														
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Rhizosolenia alata*	ciliates	*Ceratium lineatum*	"n" nanoflagellates	"n" nanoflagellates	"n" nanoflagellates	dinoflagellates	ciliates	ciliates	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Heterocapsa triquetra*	dinoflagellates	*Pseudonitzschia sp.*	dinoflagellates	dinoflagellates	dinoflagellates	*Skeletonema costatum*	"b" nanoflagellate	"b" nanoflagellate	*Prorocentrum gracile*	*Skeletonema costatum*	*Eucampia zoodiacus*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*
count (cells/mL)	~200	~150	~150	~20	~60	~8	~340	~300	~220	~20	~20	~20	~500	~300	~360	~80	~200	~350	~150	~60	~40	~1000	4500	~800	~50	~400	~100	~160	~160	~85
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	45	60	55	30	20	20	10	1	10	10	0	0	30	35	60	40	35	50	15	25	20	60	30	30	30	45	60	70	75	70
Dinoflagellates	20	15	18	38	24	34	30	34	30	40	30	35	50	40	25	40	40	30	35	40	40	25	20	30	30	30	25	15	15	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5	0	2	1	1
Other Flagellates	5	5	2	2	1	1	10	15	20	20	25	20	5	10	5	10	5	5	35	20	30	10	40	30	10	5	5	5	4	4
Zooplankton	30	20	25	30	55	45	50	50	40	30	45	45	15	15	10	10	20	15	15	15	10	5	10	10	20	15	10	8	5	5
Biomass	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	3.5	3.0	3.0	3.0	3.0	3.0	2.5	2.0	2.0	3.5	3.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0

Table 33 cont'd

date	31-Jul			11-Aug			14-Aug			21-Aug			28-Aug			4-Sep			12-Sep			18-Sep			25-Sep			2-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads	1			1	1	1	1	1	1	1	1					1	1	1				1	1		1	1	1			
Dictyocha speculum				1		1				1	1			1		1	1	1				1	1	1			1	1	1	
Dinobryon balticum																														
Ebria tripartita				1	1														1											
Euglenoid					1		1	1	1			1	1				1								1	1			1		
Phaeocystis pouchetii																														
unid. Nanoflagellates	3	3	4	4	4	4	6	6	6	5	4	5	3	4	3	5	6	5	2	1	2	6	5	5	5	2	6	6	5	4
Zooplankton																														
Appendicularian													1																	
Ciliate	5	3	6	5	5	7	4	9	7	9	9	9	7	10	6	7	8	7	6	2	3	4	4	4	4	2	1	10	10	9
Copepod																														
Nauplius			1	1				1	2			1				1														
Pluteus																														
Radiolarian																														
Rotifer					1				1									1												
Tintinnid			2							1		1	2	2	2		2		1	1										
Zoea																														
other																														
Dominant Species/Group																														
name	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Pseudonitzschia sp.*	dinoflagellates	dinoflagellates	*Skeletonema costatum*	*Prorocentrum gracile*	*Prorocentrum gracile*	dinoflagellates	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Prorocentrum gracile*	dinoflagellates	dinoflagellates	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	gymnodinioid dinoflagellates	gymnodinioid dinoflagellates	*Polykrikos sp.*	*Gymnodinium sanguineum*	*Gymnodinium sanguineum*	*Gymnodinium sanguineum*	*Leptocylindrus minimus*	*Heterocapsa triquetra*	*Heterocapsa triquetra*	ciliates	ciliates	ciliates
count (cells/mL)	~120	~130	1000	~200	~200	~500	~40	~20	~110	2500	3300	2500	~40	~140	~140	~45	~115	~85	~380	~50	~5	1700	~130	~120	7700	~60	~25	~170	~170	~120
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	70	80	70	12	20	45	25	20	20	70	70	75	20	20	25	10	5	10	1	1	1	5	5	10	35	18	30	20	20	20
Dinoflagellates	20	15	25	75	65	40	40	50	50	15	10	10	60	40	40	50	65	55	85	85	95	80	75	70	45	55	40	30	23	26
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5	5	0	0	0	5	1	2	2	2	1	3	5	1
Other Flagellates	2	1	1	3	5	5	20	10	10	5	5	5	3	10	10	5	5	3	1	1	1	5	9	8	8	20	25	6	7	3
Zooplankton	8	4	4	10	10	10	15	20	20	10	15	10	17	30	25	25	20	27	13	13	3	5	10	10	10	5	4	41	45	50
Biomass	3.0	3.5	3.5	2.5	2.5	2.5	2.0	2.0	2.0	4.0	3.5	3.0	2.5	2.5	2.5	3.5	3.5	3.0	3.5	2.0	2.0	4.5	3.0	2.0	4.0	2.5	2.5	2.5	2.5	2.0

Table 33 cont'd

date	9-Oct			16-Oct			23-Oct			30-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates												
Cryptomonads												
Dictyocha speculum	1	1					1			1	1	
Dinobryon balticum												
Ebria tripartita												
Euglenoid				1			1		1			
Phaeocystis pouchetii												
unid. Nanoflagellates	6	6	6	5	6	3	6	3	3	7	5	4
Zooplankton												
Appendicularian												
Ciliate	11	10	10	10	9	6	12	8	8	8	8	8
Copepod												
Nauplius							1				1	
Pluteus												
Radiolarian												
Rotifer												
Tintinnid	1	2		1	1	1	2	2		1		1
Zoea												
other												
Dominant Species/Group												
name	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Cochlodinium polykrikoides*	*Pseudonitzschia spp.*	*Pseudonitzschia spp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*
count (cells/mL)	6000	3200	1300	4400	4600	1300	~300	~700	~1000	7000	~1400	1300
% constituent	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	65	65	65	80	85	85	40	45	60	65	60	65
Dinoflagellates	15	15	15	8	5	9	35	30	20	22	20	20
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	5	5	5	2	2	1	5	5	5	3	3	1
Zooplankton	15	15	15	10	8	5	20	20	15	10	17	14
Biomass	4.5	4.0	3.0	4.5	4.0	3.0	4.0	2.5	2.5	4.5	3.5	3.5

Table 34 : Diatoms in Cliff Cove samples.

date	12-Jun			26-Jun			10-Jul			24-Jul			7-Aug			15-Aug			21-Aug			29-Aug			3-Sep			18-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis																														
Asterionella japonica				1	1	1	1	1		1	1	1	1		1			1												
Asteromphalus heptactis										1	1	1								1		1				1				
Bacteriastrum sp.				1	1	1	1	1	1			1	1		1		1	1		1		1	1	1			1			
Biddulphia sp.																														
Campylosira/Plagiogramma																			1											
Cerautalina sp.										1					1															
Chaetoceros concavicorne									1																					
Chaetoceros convolutus			1																											
Chaetoceros sp.	2	6	4	6	6	4	1	2	1	4	9	8	3		3	5	7	6	5	7	8		1	1		1	1			
Corethron hystrix																														
Coscinodiscus sp.									1							1	1	2		1	1			1		1	1			
Cylindrotheca closterium						1	1	1		1	1		1		1		1			1	1		1			1				
Dactylisolen sp.							1	1	1	1	1	1			1		1			1	1	1	1							
Detonula pumila						1																								
Ditylum brightwellii										1	1		1		1		1	1		1	1					1	1			
Eucampia zoodiacus										1	1	1													1	1				
Grammatophora sp.				1																										
Hemiaulus sp.																														
Lauderia annulata												1																		
Leptocylindrus danicus		1	1	1	1	1				1	1	1	1		1	1	1							1	1	1	1	1		
Leptocylindrus minimus											1		1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Licmophora sp.																														
Melosira sp.																														
Navicula sp.				1				1			1	1						1					1							
Nitzschioid sp.	1	1	1	1	1	1	1	1	1	1	1	1	1		1			1	1	1	1					1	1		1	
Pleurosigma/ Gyrosigma sp.																														
Rhizosolenia setigera		1		1	1	1	1	1	1	1	1	1			1			1												
Rhizosolenia sp. (pointy)	1	1	1	1	1	1	1																							
Rhizosolenia sp. (blunt)																	1	1	1				1							
Rhizosolenia stolterfothii		1			1					1	1	1	1		1		1	1	1	1	1	1	1	1	1	1				
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1								1	
Stephanopyxis sp.																														
Thalassionema sp.					1					1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1				
Thalassiosira sp.	2		1		1	1		1	1	3	2	2	3		2	2	2	2	2	2	2	1	1	1		1	1			

Table 34 cont'd

date	27-Sep			9-Oct			16-Oct			30-Oct			13-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms															
Achnanthes sp.															
Amphiproral Tropidoneis															
Asterionella japonica															
Asteromphalus heptactis							1								
Bacteriastrum sp.															
Biddulphia sp.		1													1
Campylosira/Plagiogramma															
Cerautalina sp.															
Chaetoceros concavicorne															
Chaetoceros convolutus															
Chaetoceros sp.				1			1								
Corethron hystrix															
Coscinodiscus sp.															
Cylindrotheca closterium						1	1								
Dactylisolen sp.															
Detonula pumila															
Ditylum brightwellii															
Eucampia zoodiacus															
Grammatophora sp.															
Hemiaulus sp.															
Lauderia annulata															
Leptocylindrus danicus	1			1	1	1	1	1	1						
Leptocylindrus minimus	1	1	1	1	1	1	1	1	1	1		1			1
Licmophora sp.															
Melosira sp.															1
Navicula sp.						1									
Nitzschioid sp.	1			1	1	1	1	1	1	1	1	1		1	
Pleurosigma/ Gyrosigma sp.															
Rhizosolenia setigera															1
Rhizosolenia sp. (pointy)															
Rhizosolenia sp. (blunt)							1	1	1						
Rhizosolenia stolterfothii	1			1											
Skeletonema costatum				1	1	1	1	1	1				1		
Stephanopyxis sp.															
Thalassionema sp.							1			1		1			
Thalassiosira sp.	1	1		1	1	1	2	1	2	1	1	1			

Table 35 : Dinoflagellates in Cliff Cove samples.

date	12-Jun			26-Jun			10-Jul			24-Jul			7-Aug			15-Aug			21-Aug			29-Aug			3-Sep			18-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.											1	1			1		1	1						1	1					
Ceratium divericatum																														
Ceratium furca																														
Ceratium fusus																												1	1	1
Ceratium lineatum	1	1	1	1	1	1	1	1	1	1	1	1			1		1	1		1				1	1	1	1	1	1	1
Ceratium pentagonum																														
Ceratium sp.			1			1																								
Cochlodinium polykrikoides												1											1	1						
Cochlodinium sp.				1		1												1												1
Dinophysioid sp.				1		1										1		1		1		1	1	1	1	2	1	2	1	2
Diplopsalis sp.																														
Gonyaulacoid sp.			1																								1	1		
Gonyaulax digitale				1	1	1	1	1	1			1																10	8	9
Gymnodinioid sp.	2	4	3	3	5	7	4	5	5	6	9	9	8		7	5	10	9	7	9	5	10	10	11	10	10	7			
Gyrodinium spirale - type				2	2	1	2	1		2	1	2	1				2	1	1	2	2	3		3	1	1	1	1		
Heterocapsa triquetra				1	1		1	1	1	1	1	1	1		1	1	1	1				1	1	1	1	1	1	1		
Noctiluca scintillans												1											1					1		
Oxyrrhis marina																									1			1	1	1
Oxyphysis oxytoxoides																						1	1			1				1
Polykrikos sp.																	1													
Prorocentrum gracile							1	1	1	1	1	1	1		1	1	1		1	1	1	1	1	1	1	1	1	1		1
Prorocentrum micans																				1		1			1		1	1		
Prorocentrum sp.					1	1										1														
Protoperidinioid sp.		1	1	3	5	3	4	7	4	4	2	6	3		3	5	9	5	2	4		8	8	10	7	5	1	7	8	9
Pyrocystis lunula									1																					
Raphidophytes																														
Heterosigma akashiwo										1	1	1	1		1	1	1			1	1	1	1	1	1	1	1	1	1	1
Chattonella marina																									1	1	1			

Table 35 cont'd

date	27-Sep			9-Oct			16-Oct			30-Oct			13-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates															
Alexandrium sp.												1			
Amphidinium sp.		1	1							1		1			
Ceratium divericatum															
Ceratium furca															
Ceratium fusus		1													
Ceratium lineatum	1	1			1										
Ceratium pentagonum															
Ceratium sp.															
Cochlodinium polykrikoides				1											
Cochlodinium sp.			1				1								
Dinophysioid sp.		1								1	1	1			
Diplopsalis sp.										1		1			
Gonyaulacoid sp.							1			2		1			
Gonyaulax digitale															
Gymnodinioid sp.	3	6	1	6	5	3	7	3	3	8	3	8	2	3	4
Gyrodinium spirale - type	1	1	1	1	1		3	2	1	1	1			1	1
Heterocapsa triquetra		1								1		1		1	1
Noctiluca scintillans															
Oxyrrhis marina															
Oxyphysis oxytoxoides															
Polykrikos sp.															
Prorocentrum gracile	1	1	1		1	1	1			1	1	1		1	
Prorocentrum micans	1	1		1	1					1	1			1	1
Prorocentrum sp.															
Protoperidinioid sp.	5	4	1	2	3		1	1	2	5		5		2	2
Pyrocystis lunula															
Raphidophytes															
Heterosigma akashiwo	1											1		1	1
Chattonella marina															

Table 36 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Cliff Cove samples.

date	12-Jun			26-Jun			10-Jul			24-Jul			7-Aug			15-Aug			21-Aug			29-Aug			3-Sep			18-Sep		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads										1						1	1		1	1			1		1	1	1			
Dictyocha speculum	1		1		1																				1		1		1	
Dinobryon balticum										1																				
Ebria tripartita			1																1	1										
Euglenoid																	1													1
Phaeocystis pouchetii																														
unid. Nanoflagellates	2	3	4	6	3	4	3	3	4	5	4	4	4		5	4	5	5	4	4	4	5	7	7	7	7	7	3	4	5
Zooplankton																														
Amoeba																														
Appendicularian																														
Ciliate	3	3	3	7	4	1	3	4	4	7	5	7	5		4	7	8	7	7	5	6	9	6	9	5	9	5	8	8	9
Copepod				1																										
Nauplius																													1	
Pluteus																														
Radiolarian																		1				1	1							
Rotifer					1	1									1								1							
Tintinnid			2		1	1			1	2	1	1	1		2	1				1	1			1						1
Zoea																														
other																						1								
Dominant Species/Group																														
name	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Pseudonitzschia sp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	no sample	*Skeletonema costatum*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Prorocentrum gracile*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*
count (cells/mL)	1400	2400	1200	~800	~1000	~200	1300	1300	~450	4000	3000	3000	2600		3800	~230	~800	~180	2200	2200	960	~240	~120	~60	2000	2400	~700	12000	7400	8800
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	80	85	75	60	65	65	65	75	55	70	80	70	70	73	85	75	70	75	80	80	85	20	20	20	25	25	25	50	50	45
Dinoflagellates	10	10	15	20	28	25	30	20	30	19	10	20	15	14	10	13	15	15	8	7	8	40	45	40	40	35	35	35	30	35
Raphidophytes	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	0	0	0	1	0	0	0	0	15	15	10	2	1	2
Other Flagellates	2	1	5	5	2	5	1	1	3	2	1	1	1	4	1	4	5	2	2	2	1	10	10	15	10	10	15	3	4	3
Zooplankton	8	4	5	15	5	5	4	4	12	8	8	8	13	9	4	7	10	8	10	10	6	30	25	25	10	15	15	10	15	15
Biomass	3.5	3.5	3.0	3.5	3.0	3.0	3.0	3.0	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.5	3.0	3.5	4.0	3.5	3.0	3.0	2.0	3.5	3.5	3.0	4.5	4.0	4.0

Table 36 cont'd

date	27-Sep			9-Oct			16-Oct			30-Oct			13-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates															
Cryptomonads															
Dictyocha speculum					1		1	1			1				
Dinobryon balticum															
Ebria tripartita															
Euglenoid										1		1			
Phaeocystis pouchetii															
unid. Nanoflagellates	7	5	2	2	5	3	6	3	2	5	4	4	4	3	4
Zooplankton															
Amoeba															
Appendicularian															
Ciliate	6	6	4	6	8	6	7	3	1	4	7	8	4	3	7
Copepod															
Nauplius			1									1			
Pluteus															
Radiolarian															
Rotifer															
Tintinnid	1		1	1	1	1	1			1		3	1		
Zoea															
other															
Dominant Species/Group															
name	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Leptocylindrus minimus*	*Skeletonema costatum*	*Skeletonema costatum*	*Leptocylindrus minimus*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Prorocentrum gracile*	*Pseudonitzschia sp.*	*Pseudonitzschia sp.*	ciliates & tintinnids	*Heterosigma akashiwo*	*Heterosigma akashiwo*
count (cells/mL)	15000	11000	2000	9200	4600	~800	2900	~600	~200	~570	~150	~170	~20	600	~30
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	60	50	60	90	80	75	65	70	80	15	35	35	5	3	10
Dinoflagellates	20	30	25	4	7	10	20	20	15	75	30	50	20	15	25
Raphidophytes	1	0	0	0	0	0	0	0	0	0	0	0	0	75	10
Other Flagellates	9	5	1	1	3	2	5	5	2	3	5	1	20	2	10
Zooplankton	10	15	14	5	10	13	10	5	3	7	30	14	55	5	45
Biomass	4.0	3.5	2.0	4.5	4.0	2.5	3.5	3.0	2.0	4.0	2.0	3.0	1.5	2.5	2.0

Table 37 : Diatoms in Koskimo Bay samples.

date	29-May			04-Jun			10-Jun			18-Jun			21-Jun			02-Jul			09-Jul			16-Jul			22-Jul			30-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiprora/ Tropidoneis											1																			
Asterionella japonica												1				1				1	1							1		
Asteromphalus hepactis																														
Bacteriastrum sp.																1				1	1							1		
Biddulphia sp.																														
Campylosira/Plagiogramma																												1	1	
Cerautalina sp.																	1			1	1									
Chaetoceros concavicorne																														
Chaetoceros convolutus																									1	1				
Chaetoceros sp.		3	3	5	2	3		2		6	5	7			2	7	7	6		8	6	3	4	3		1	2	6	4	1
Corethron hystrix																														
Coscinodiscus sp.																										1				
Cylindrotheca closterium				1		1										1	1			1										
Dactylisolen sp.																				1										
Detonula pumila			1									1																		
Ditylum brightwellii																												1		1
Eucampia zoodiacus																		1				1								
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus												1					1	1		1	1	1						1	1	1
Leptocylindrus minimus																														1
Licmophora sp.																												1		1
Melosira sp.																														
Navicula sp.			1	1							1					1	1	1		1		1				1		1	1	
Nitzschioid sp.										1	1	1			1	1	1	1		1	1	1		1	1			1		
Pleurosigma/ Gyrosigma sp.		1																										1		
Rhizosolenia setigera										1							1	1		1					1					
Rhizosolenia sp. (pointy)			1	1		1					1	1				1	1	1		1	1									
Rhizosolenia sp. (blunt)																												1		
Rhizosolenia stolterfothii																					1						1			
Skeletonema costatum		1	1	1	1	1		1		1	1	1		1	1	1	1	1		1	1		1	1				1	1	1
Stephanopyxis sp.																												1		
Thalassionema sp.			1								1	1																1		
Thalassiosira sp.			1		1			1		1	1	1			1	1	1	3		2	1	2		1		1		1	1	1
Thalassiothrix sp.																														

Table 37 cont'd

date	06-Aug			13-Aug			18-Aug			27-Aug			02-Sep			10-Sep			17-Sep			24-Sep			01-Oct			08-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms																														
Achnanthes sp.																														
Amphiproral Tropidoneis		1			1							1																		
Asterionella japonica							1	1		1	1	1																1		
Asteromphalus hepactis	1																													
Bacteriastrum sp.											1	1																		
Biddulphia sp.		1																						1						
Campylosiral/Plagiogramma							1			1																				
Cerautalina sp.										1			1	1	1															
Chaetoceros concavicorne			1	1	1																									
Chaetoceros convolutus	1				1	1	1	1	1	1	1	1	1			1	1	1	1	1		1								
Chaetoceros sp.	6	3	7	4	5	5	9	10	8	10	10	10	6	9	3	6	7	5				4	2	3	2			4	2	5
Corethron hystrix									1	1	1								7	5	6									
Coscinodiscus sp.			1		1								1			1							1					1		
Cylindrotheca closterium			1		1					1							1		1											
Dactylisolen sp.			1								1	1								1	1			1	1	1				1
Detonula pumila				1																										
Ditylum brightwellii		1	1				1	1	1	1	1	1																	1	
Eucampia zoodiacus	1	1	1	1	1			1		1	1		1	1			1	1	1		1									
Grammatophora sp.																														
Hemialus sp.																														
Lauderia annulata																														
Leptocylindrus danicus	1	1	1		1			1	1	1	1			1		1				1		1						1		
Leptocylindrus minimus	1																		1	1	1							1	1	1
Licmophora sp.				1			1									1						1	1					1		
Melosira sp.																														
Navicula sp.	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	2	1					1	1
Nitzschioid sp.		1	1	1	1		2	2	2	2	1	1				1	1		1	1	1	1		1				1	1	1
Pleurosigma/ Gyrosigma sp.			1		1								1	1			1	1												
Rhizosolenia setigera		1	1		1					1	1	1										1	1		1			1	1	1
Rhizosolenia sp. (pointy)				1	1											1		1												
Rhizosolenia sp. (blunt)								1			1	1						1		1	1	1	1							1
Rhizosolenia stolterfothii	1	1	1							1	1	1	1	1	1	1	1	1	1	1	1	1						1	1	1
Skeletonema costatum	1	1	1	1	1	1	1	1	1	1	1	1			1	1					1				1			1	1	1
Stephanopyxis sp.	1												1																	
Thalassionema sp.										1	1		1	1		1		1	1		1			1					1	1
Thalassiosira sp.	1	1	1	2	2	3	2	2	2	3	3	3	1	2	1	3	2	2	3	2	2	2	2	1	2		1	1	1	1
Thalassiothrix sp.													1			1	1	1			1	1								

Table 37 cont'd

date	15-Oct			22-Oct			29-Oct			06-Nov			12-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Diatoms															
Achnanthes sp.															
Amphiproral Tropidoneis						1									
Asterionella japonica															
Asteromphalus hepactis															
Bacteriastrum sp.															
Biddulphia sp.													1		
Campylosira/Plagiogramma															
Cerautalina sp.															
Chaetoceros concavicorne															
Chaetoceros convolutus															
Chaetoceros sp.		2	1	4	4	3	2								
Corethron hystrix															
Coscinodiscus sp.															
Cylindrotheca closterium															
Dactylisolen sp.		1		1	1										
Detonula pumila						1									
Ditylum brightwellii					1	1									
Eucampia zoodiacus				1	1	1									
Grammatophora sp.															
Hemialus sp.															
Lauderia annulata															
Leptocylindrus danicus				1		1									
Leptocylindrus minimus					1										
Licmophora sp.															
Melosira sp.															
Navicula sp.		1													
Nitzschioid sp.		1	1	1	1	1									
Pleurosigma/ Gyrosigma sp.										1					
Rhizosolenia setigera			1	1	1	1									
Rhizosolenia sp. (pointy)															
Rhizosolenia sp. (blunt)				1	1			1							
Rhizosolenia stolterfothii						1	1								
Skeletonema costatum	1	1	1	1	1	1									
Stephanopyxis sp.															
Thalassionema sp.		1	1	1	1										
Thalassiosira sp.		1		2	2	2		1						1	1
Thalassiothrix sp.															

Table 38 : Dinoflagellates in Koskimo Bay samples.

date	29-May			04-Jun			10-Jun			18-Jun			21-Jun			02-Jul			09-Jul			16-Jul			22-Jul			30-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.				1	1	1		1		1	1	1			1															
Amphidinium sp.																										1	1			
Ceratium furca											1																			
Ceratium fusus																														
Ceratium lineatum				1	1	1				1	1				1						1									
Ceratium sp.																														
Cochlodinium polykrikoides																														
Cochlodinium sp.																							1							
Dinophysioid sp.										1						1														
Diplopsalis sp.																														
Gonyaulacoid sp.			1	1	1	1				1	2	1				1	1	1		1	1									
Gymnodinioid sp.			1	3	3	3		2		8	7	6			1	8	6	3		9	2	3	4	2	5	6	7	7	2	6
Gymnodinium galatheanum																														
Gymnodinium mikimotoi																														
Gymnodinium sanguineum																														
Gyrodinium spirale-type				3	1					2	2	2				1	1			2	1	2	1	1	1	3			1	1
Heterocapsa triquetra										1	1	1				1						1			1	1				
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																														
Oxyphysis oxytoxoides																														
Polykrikos sp.																									1					
Prorocentrum gracile																														
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.																1														1
Protoperidinioid sp.			2	4	3	3		4		10	5	5			1	4	3	1		5	3	2	1		2	3	3	9	2	1
Pyrocystis lunula																														
Torodinium robustum																														
Raphidophytes																														
Heterosigma akashiwo																														

Table 38 cont'd

date	06-Aug			13-Aug			18-Aug			27-Aug			02-Sep			10-Sep			17-Sep			24-Sep			01-Oct			08-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates																														
Alexandrium sp.																														
Amphidinium sp.																		1												1
Ceratium furca																						1	1							
Ceratium fusus																														
Ceratium lineatum											1	1	1			1	1	1	1	1	1	1	1	1					1	1
Ceratium sp.																														
Cochlodinium polykrikoides										1						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cochlodinium sp.																														
Dinophysioid sp.											1	1		1				1	1	1	1		1	1	2					
Diplopsalis sp.																														
Gonyaulacoid sp.					1														1		1									
Gymnodinioid sp.	6	4	4	6	3	4	7	7	2	9	7	7	7	7	3	6	8	8	11	13	10	10	7	4	4			5	5	4
Gymnodinium galatheanum																														
Gymnodinium mikimotoi																1		1	1	1	1	1	1	1	1				1	
Gymnodinium sanguineum																						1	1							
Gyrodinium spirale-type	2	2	1	1	1		2	1	1	2	2	1	1	2		2	1			1	1							1	1	1
Heterocapsa triquetra											1		1			1					1							1		
Noctiluca scintillans																														
Noctilucoid sp.																														
Oxyrrhis marina																			1	1	1									
Oxyphysis oxytoxoides																				1										
Polykrikos sp.																			1	1	1									
Prorocentrum gracile										1	1	1		1		1	1	1	1	1	1	1	1					1		
Prorocentrum micans																														
Prorocentrum minimum																														
Prorocentrum sp.								1																						
Protoperidinioid sp.	7	2	3	4	5	6	6	7	1	6	5	7	3	4	3	8	8	9	6	9	4	5	7	2	1			3	3	
Pyrocystis lunula																														
Torodinium robustum																				1	1									
Raphidophytes																														
Heterosigma akashiwo							1									1	1			1	1	1	1							

Table 38 cont'd

date	15-Oct			22-Oct			29-Oct			06-Nov			12-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Dinoflagellates															
Alexandrium sp.															
Amphidinium sp.				1						1					
Ceratium furca															
Ceratium fusus															
Ceratium lineatum		1		1									1		
Ceratium sp.											1				
Cochlodinium polykrikoides				1	1		1								
Cochlodinium sp.															
Dinophysioid sp.					1					1					
Diplopsalis sp.															
Gonyaulacoid sp.															
Gymnodinioid sp.	1	1		3	7	6	1	1	1	4	4	1	1	2	1
Gymnodinium galatheanum															
Gymnodinium mikimotoi															
Gymnodinium sanguineum					1										
Gyrodinium spirale-type				1	1	1									
Heterocapsa triquetra	1			1	1	1									
Noctiluca scintillans															
Noctilucoid sp.															
Oxyrrhis marina															
Oxyphysis oxytoxoides															
Polykrikos sp.															
Prorocentrum gracile															
Prorocentrum micans				1	1	1									
Prorocentrum minimum															
Prorocentrum sp.															
Protoperidinioid sp.				3	5	3	1			2	2	1			
Pyrocystis lunula															
Torodinium robustum															
Raphidophytes															
Heterosigma akashiwo															

Table 39 : Other flagellates, microzooplankton, dominant species, percent constituent, and total biomass in Koskimo Bay samples.

date	29-May			04-Jun			10-Jun			18-Jun			21-Jun			02-Jul			09-Jul			16-Jul			22-Jul			30-Jul		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads																1	1	1		1	1	1			1	1	1			
Dictyocha speculum			1	1						1		1										1	1	1	1			1	1	1
Dinobryon balticum																														
Ebria tripartita																												1	1	
Euglenoid																												1		
Phaeocystis pouchetii																														
unid. Nanoflagellates		2	2	3	6	3		2	2	3	3	3		2	1	2	4	2		6	2	4	5	4	4	4	4	3	5	3
Zooplankton																														
Amoebae																														
Appendicularian																														
Barnacle nauplius																						1								
Ciliate		2	2	4	2	4		2		11	9	8				7	8	4		9	5	9	5	5	8	9	7	6	7	8
Copepod																												1		
Naupliius																														
Pluteus																														
Radiolarians																														
Rotifer																														
Tintinnid															1							1			1			4	2	
Zoea																														
other																														
Dominant Species/Group																														
name	no sample	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	no sample	*Skeletonema costatum*	nanoflagellates	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	no sample	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	*Skeletonema costatum*	no sample	*Skeletonema costatum*	*Skeletonema costatum*	*Dictyocha speculum*	*Skeletonema costatum*	*Skeletonema costatum*	dinoflagellates	ciliates	*Chaetoceros spp.*	*Ditylum brightwellii*	ciliates & tintinnids	ciliates
count (cells/mL)		~300	~250	~400	~1600	~400		2600	~50	10000	7200	9000		~5	~1000	2200	1600	2200		1700	~900	~20	~100	~100	~30	~40	~30	~65	~40	~20
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	59	90	85	55	62	55	52	85	0	48	55	60	52	50	91	55	60	80	43	60	80	30	40	40	10	20	30	40	35	30
Dinoflagellates	33	3	9	30	30	30	28	10	0	25	24	25	25	0	5	25	20	10	23	20	8	20	15	15	45	30	30	10	10	15
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	6.5	1	1	5	3	5	3.5	1	100	2	1	1	3.5	50	1	5	5	2	13	5	2	20	15	15	10	10	10	20	10	15
Zooplankton	2.5	6	5	10	5	10	18	4	0	25	20	14	20	0	3	15	15	8	23	15	10	30	30	30	35	40	30	30	45	40
Biomass	2.5	2.5	2.5	3.0	3.0	3.0	3.5	2.5	1.0	4.0	3.5	3.5	3.8	1.0	2.5	3.5	3.5	3.5	3.0	4.0	3.0	2.5	2.0	2.0	2.0	2.5	2.0	3.0	2.5	2.0

Table 39 cont'd

date	06-Aug			13-Aug			18-Aug			27-Aug			02-Sep			10-Sep			17-Sep			24-Sep			01-Oct			08-Oct		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates																														
Cryptomonads	1	1		1			1	1	1																					
Dictyocha speculum								1								1		1	1	1	1	1							1	
Dinobryon balticum																														
Ebria tripartita																														
Euglenoid	1	1		1	1		1																							
Phaeocystis pouchetii																														
unid. Nanoflagellates	5	3	3	5	4	4	3	4	3	2	3	1	2	2	3	4	4	4	2	3	4	6	6	5	4	2	2	3	3	3
Zooplankton																														
Amoebae			1																											
Appendicularian																														
Barnacle nauplius																														
Ciliate	10	8	8	1	2	1	10	6	3	7	8	2	2	6	2	9	8	5	1	5	5	4	5	2	1	1		8	6	5
Copepod																														
Nauplius																	1													
Pluteus																														
Radiolarians																	1						1							
Rotifer							1	1												1									1	
Tintinnid	2	4		1			1	1		1	1	1						1		1		1			1			2	1	
Zoea																														
other																						1								
Dominant Species/Group																														
name	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira aestivalis*	*Thalassiosira spp.*	*Skeletonema costatum*	*Skeletonema costatum*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros spp.*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Thalassiosira nordenskioeld*	*Ceratium lineatum*	*Chaetoceros debilis*	*Chaetoceros debilis*	*Chaetoceros spp.*	dinoflagellates	*Chaetoceros spp.*	*Gymnodinium mikimotoi*	*Thalassiosira spp.*	*Thalassiosira spp.*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Cochlodinium polykrikoides*	*Chaetoceros spp.*
count (cells/mL)	~200	~400	800	~930	~860	~370	1000	4600	1000	4900	5700	4000	~300	1000	80	~10	~100	~100	1500	~400	~900	~65	~30	~40	~25	~1	~1	~20	~68	~150
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	50	60	85	80	85	85	87	87	94	85	85	87	75	70	80	40	40	45	45	30	45	25	30	60	35	20	35	30	22	70
Dinoflagellates	15	13	10	10	11	12	6	8	3	10	10	10	20	20	13	35	30	30	50	55	40	50	35	30	55	30	45	33	45	15
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	2	5	5	0	0	0	0	0	0	0
Other Flagellates	5	2	1	5	1	1	1	1	1	1	1	1	2	1	2	1	3	2	1	2	3	15	10	5	5	20	20	2	3	2
Zooplankton	30	25	4	5	3	2	6	4	2	4	4	2	3	9	5	23	25	23	4	12	10	5	20	5	5	30	0	35	30	13
Biomass	3.0	3.0	3.5	3.0	3.0	2.5	4.0	4.0	3.0	4.5	4.5	3.0	2.5	2.5	2.0	3.0	3.0	2.5	3.5	3.5	3.0	3.5	2.5	2.0	2.0	1.0	1.0	2.5	3.0	2.5

Table 39 cont'd

Rest	15-Oct			22-Oct			29-Oct			06-Nov			12-Nov		
depth	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m	1m	5m	10m
Other Flagellates															
Cryptomonads															
Dictyocha speculum		1		1	1	1				1					
Dinobryon balticum															
Ebria tripartita				1											
Euglenoid		1													
Phaeocystis pouchetii															
unid. Nanoflagellates	4	3	2	4	3	2	2	2	2	3	3	2	2	2	1
Zooplankton															
Amoebae															
Appendicularian															
Barnacle nauplius															
Ciliate	7	2	2		5	7	5	3		5	4	2	4	1	1
Copepod															
Nauplius															
Pluteus															
Radiolarians															
Rotifer															
Tintinnid	1			3	1										
Zoea															
other															
Dominant Species/Group															
name	ciliates	*Chaetoceros debilis*	*Chaetoceros debilis*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	*Rhizosolenia setigera*	ciliates	ciliates	nothing dominant	ciliates	ciliates	ciliates	ciliates	dinoflagellates	*Gymnodinium* sp.
count (cells/mL)	~10	~30	~30	~75	~85	~85	~20	~5	0	~20	~10	~3	~4	~2	~60
% constituent	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Diatoms	30	50	70	55	70	70	25	30	0	2	0	0	10	10	5
Dinoflagellates	10	30	0	25	20	15	25	10	50	38	40	45	40	40	80
Raphidophytes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Flagellates	10	10	10	15	2	1	5	5	50	10	5	5	5	20	5
Zooplankton	50	10	20	5	8	14	45	55	0	50	55	50	45	30	10
Biomass	1.5	1.5	1.5	2.5	3.0	2.5	1.5	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.5

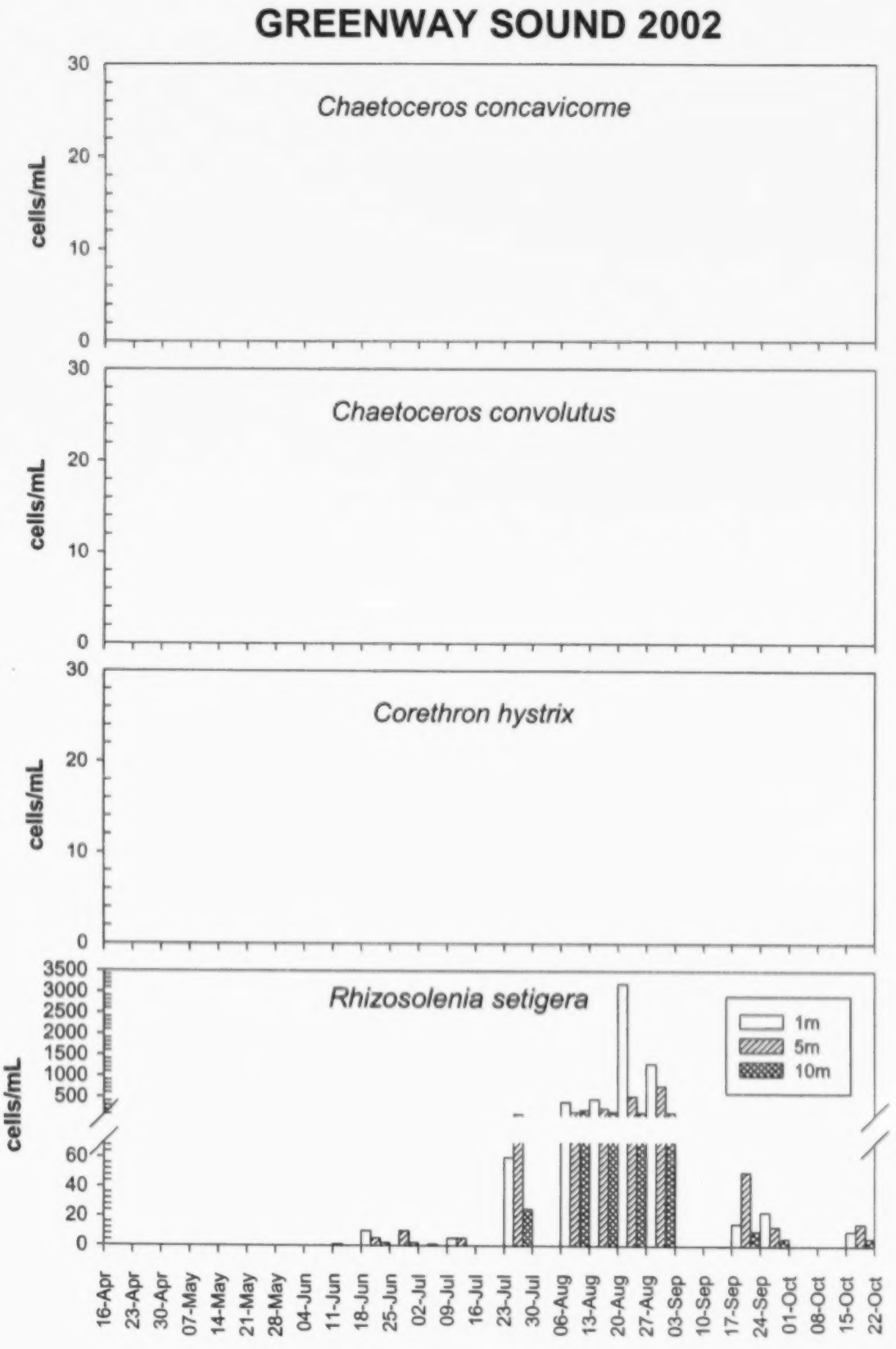

Figure 2: Harmful phytoplankton species in Greenway Sound samples.

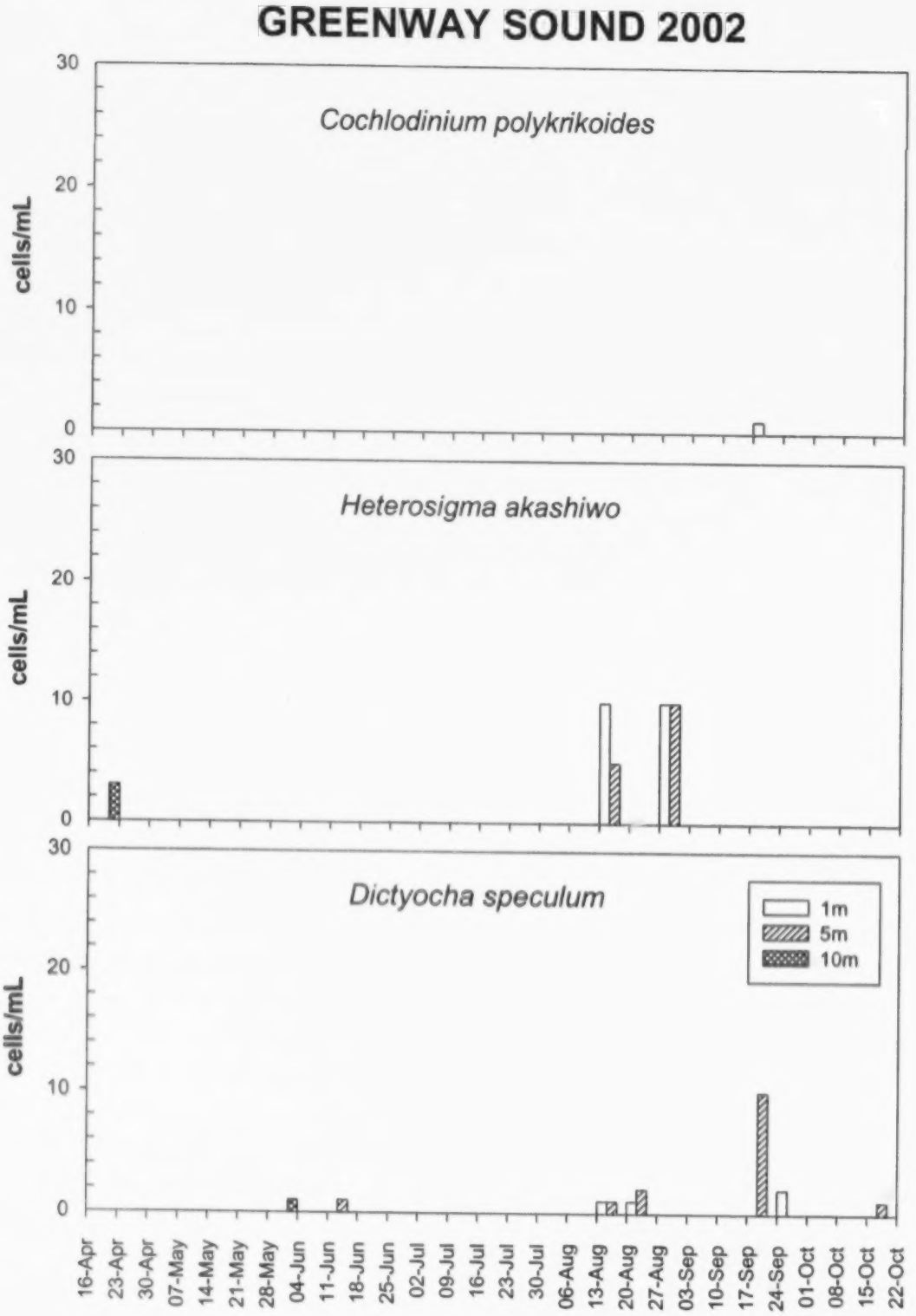

Figure 3: Harmful phytoplankton species in Greenway Sound samples.

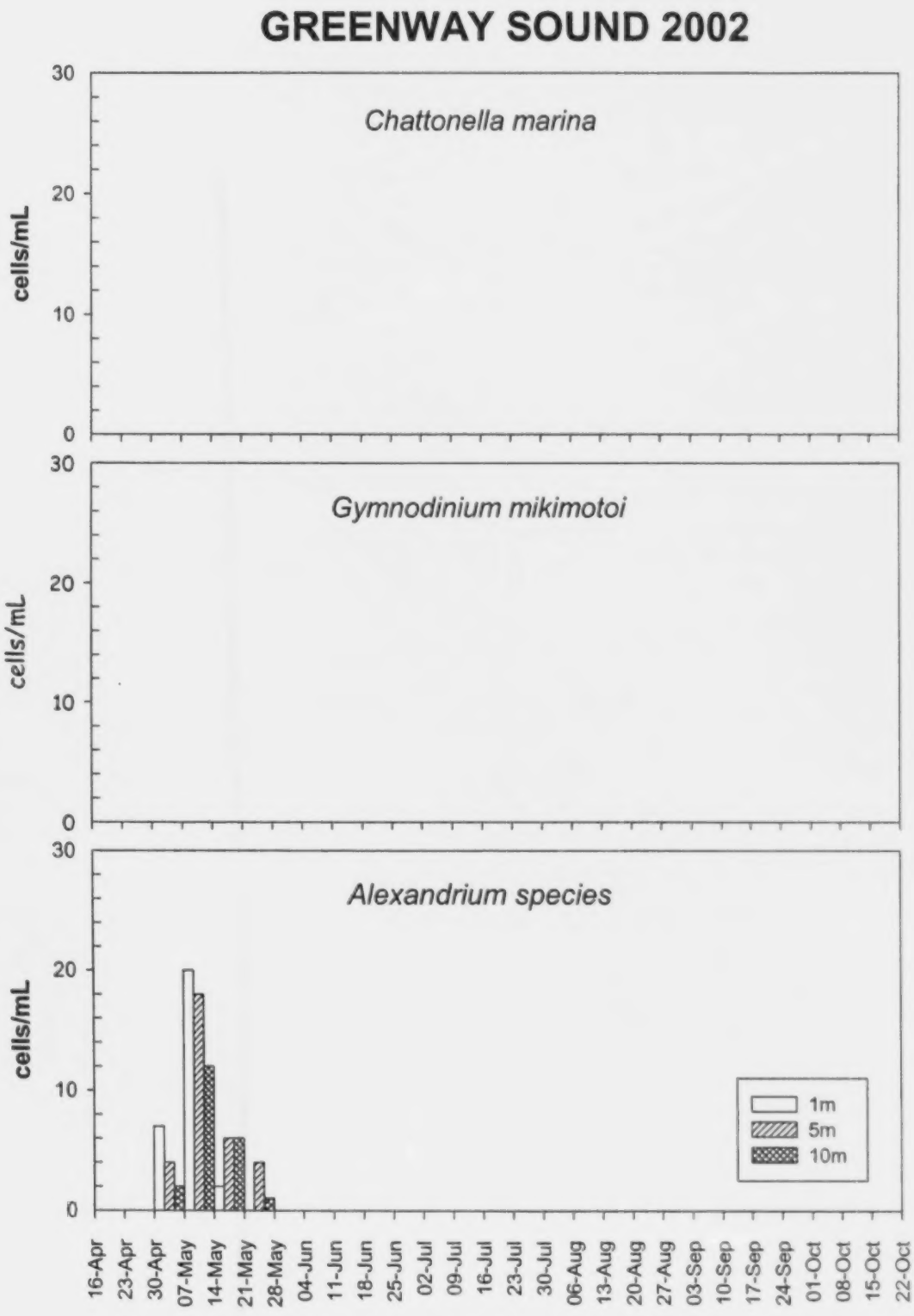

Figure 4: Harmful phytoplankton species in Greenway Sound samples.

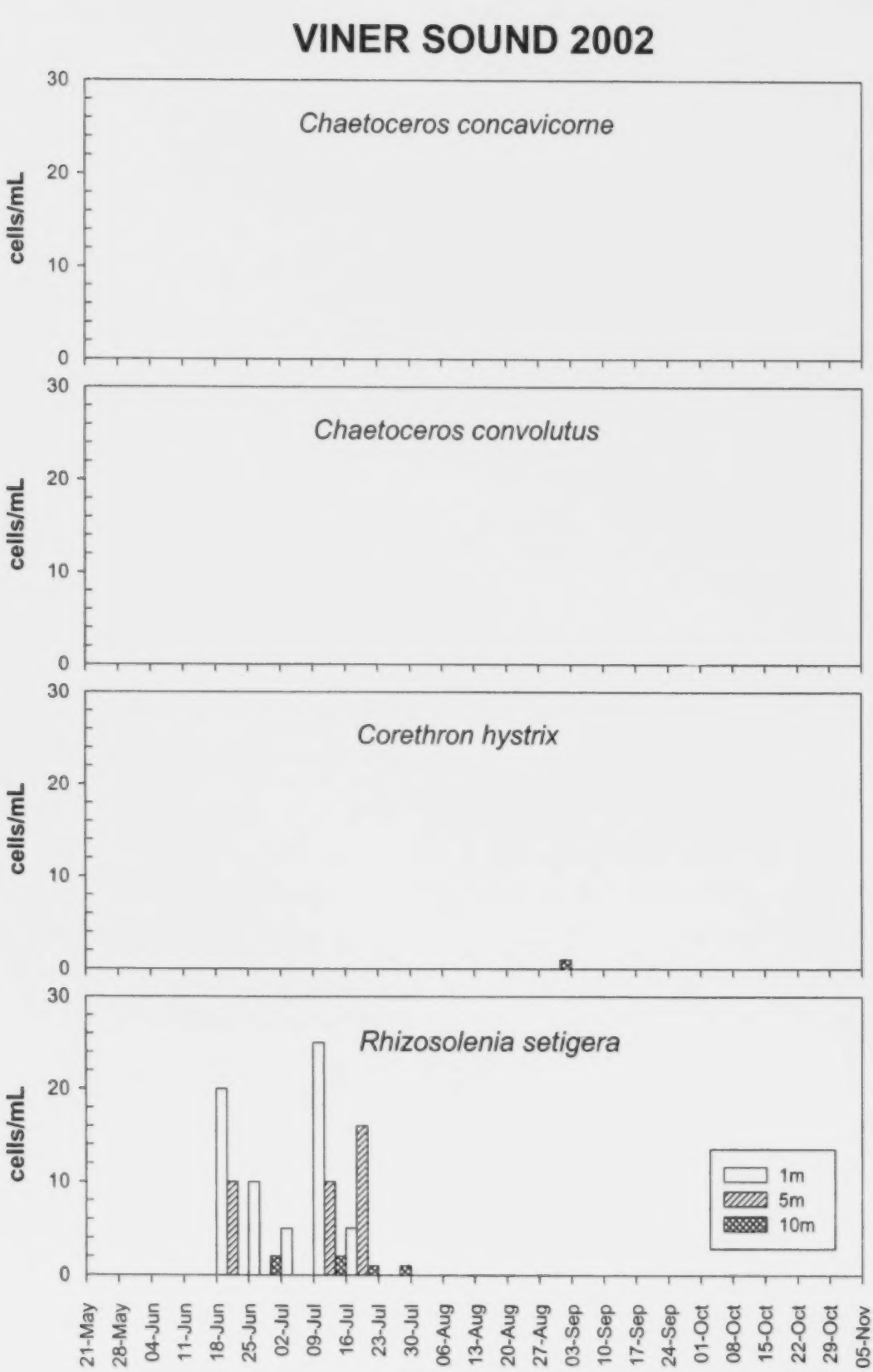

Figure 5: Harmful phytoplanton species in Viner Sound samples.

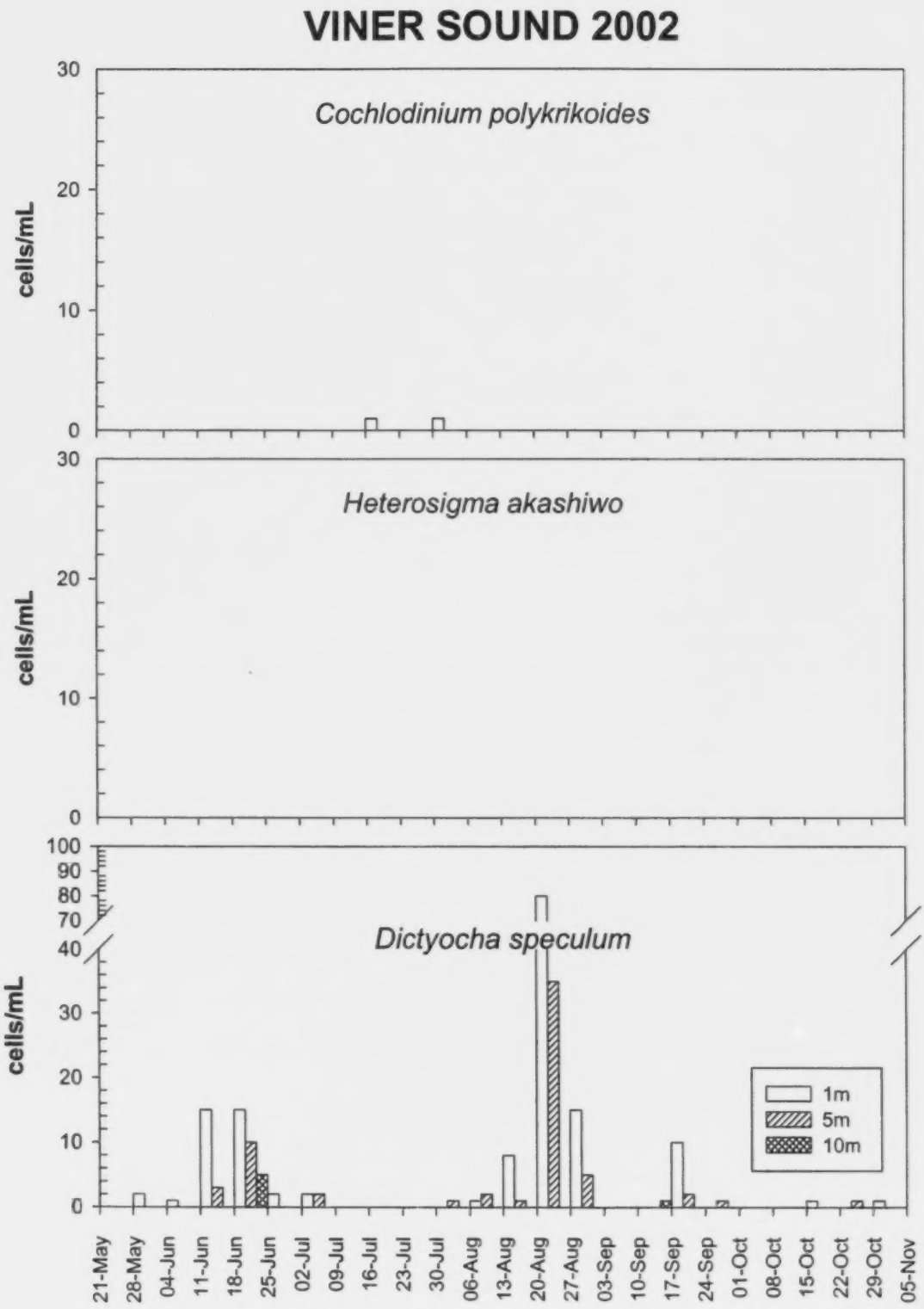

Figure 6: Harmful phytoplankton species in Viner Sound samples.

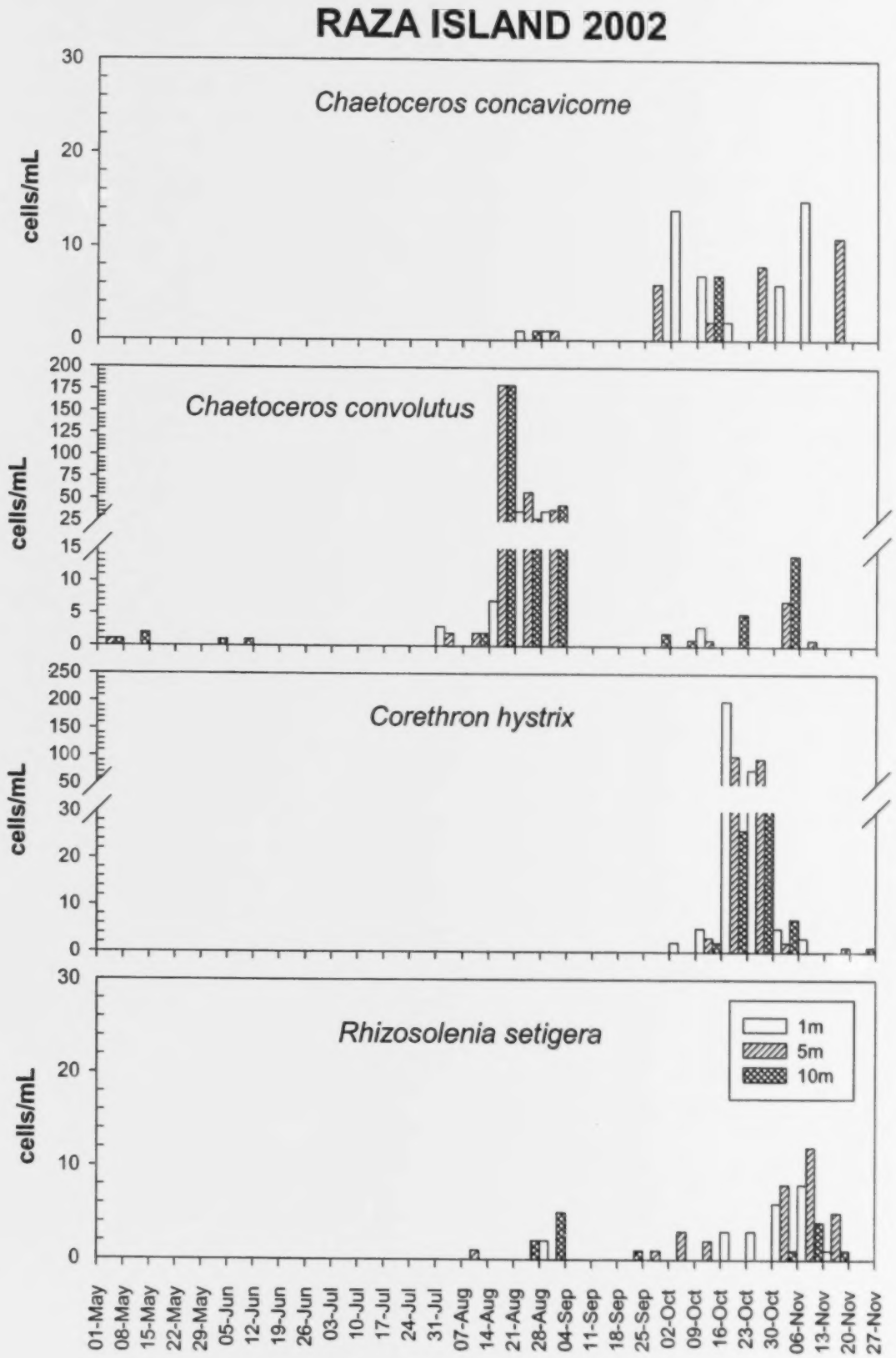

Figure 7: Harmful phytoplankton species in Raza Island samples.

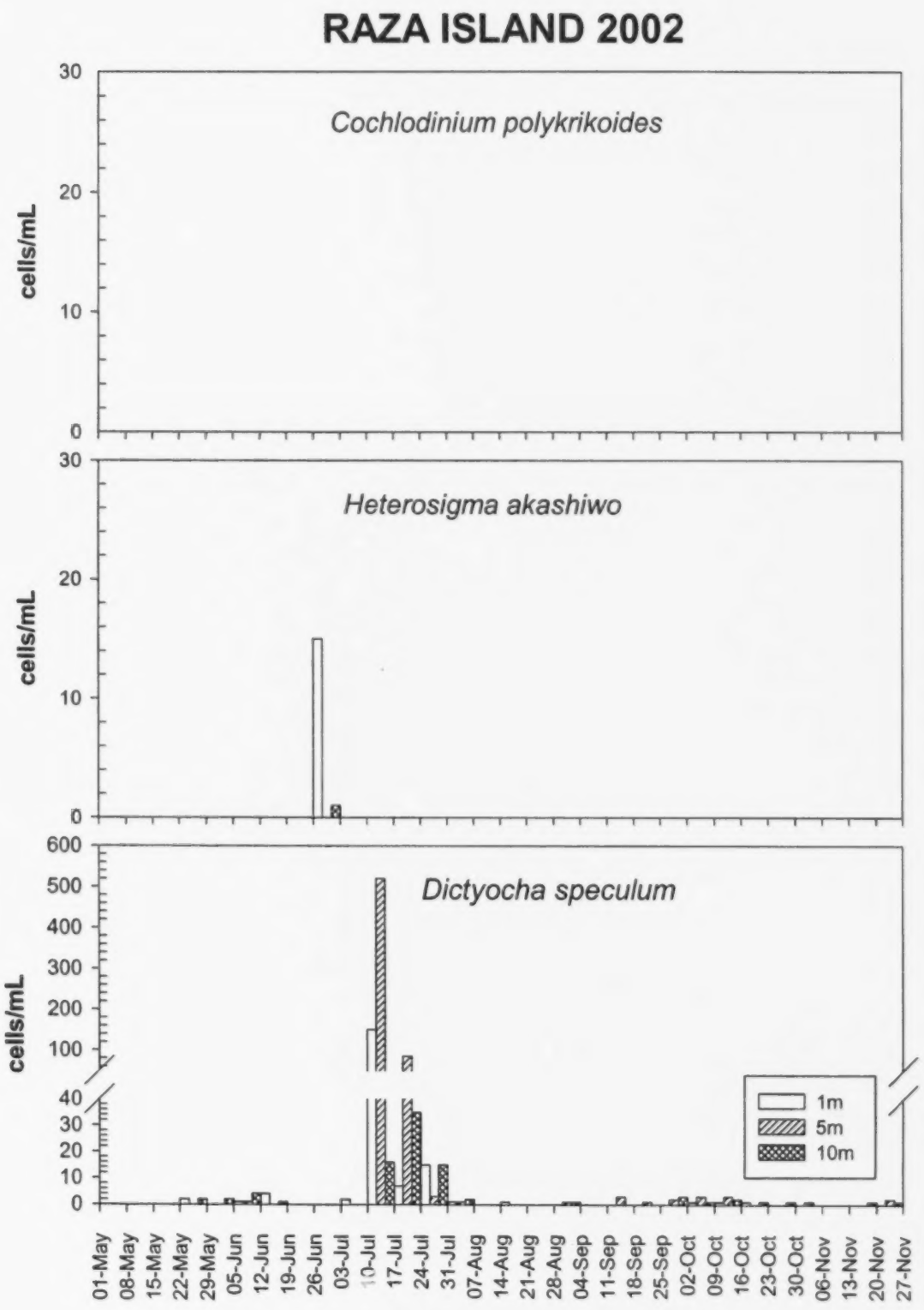

Figure 8: Harmful phytoplankton species in Raza Island samples.

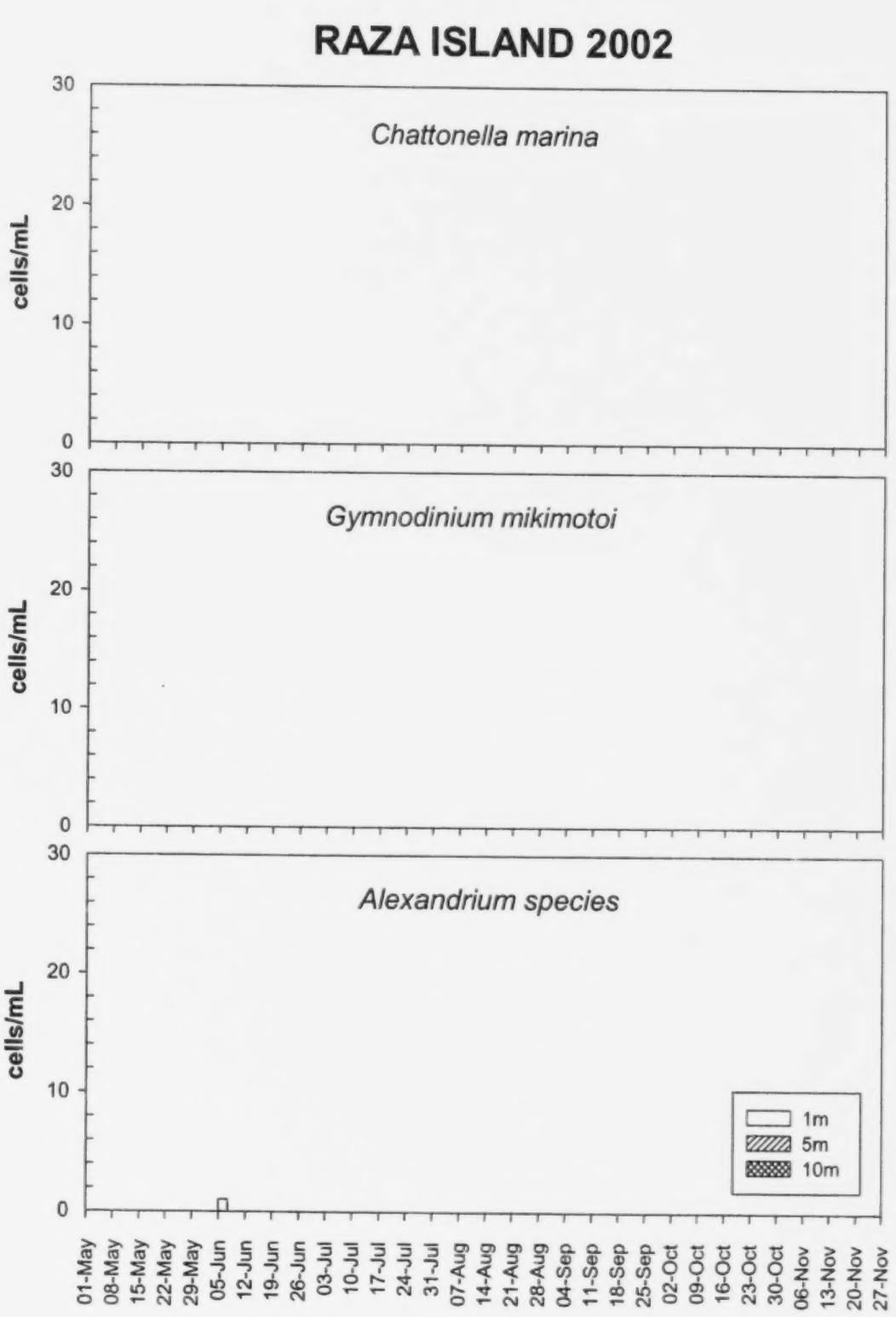

Figure 9: Harmful phytoplankton species in Raza Island samples.

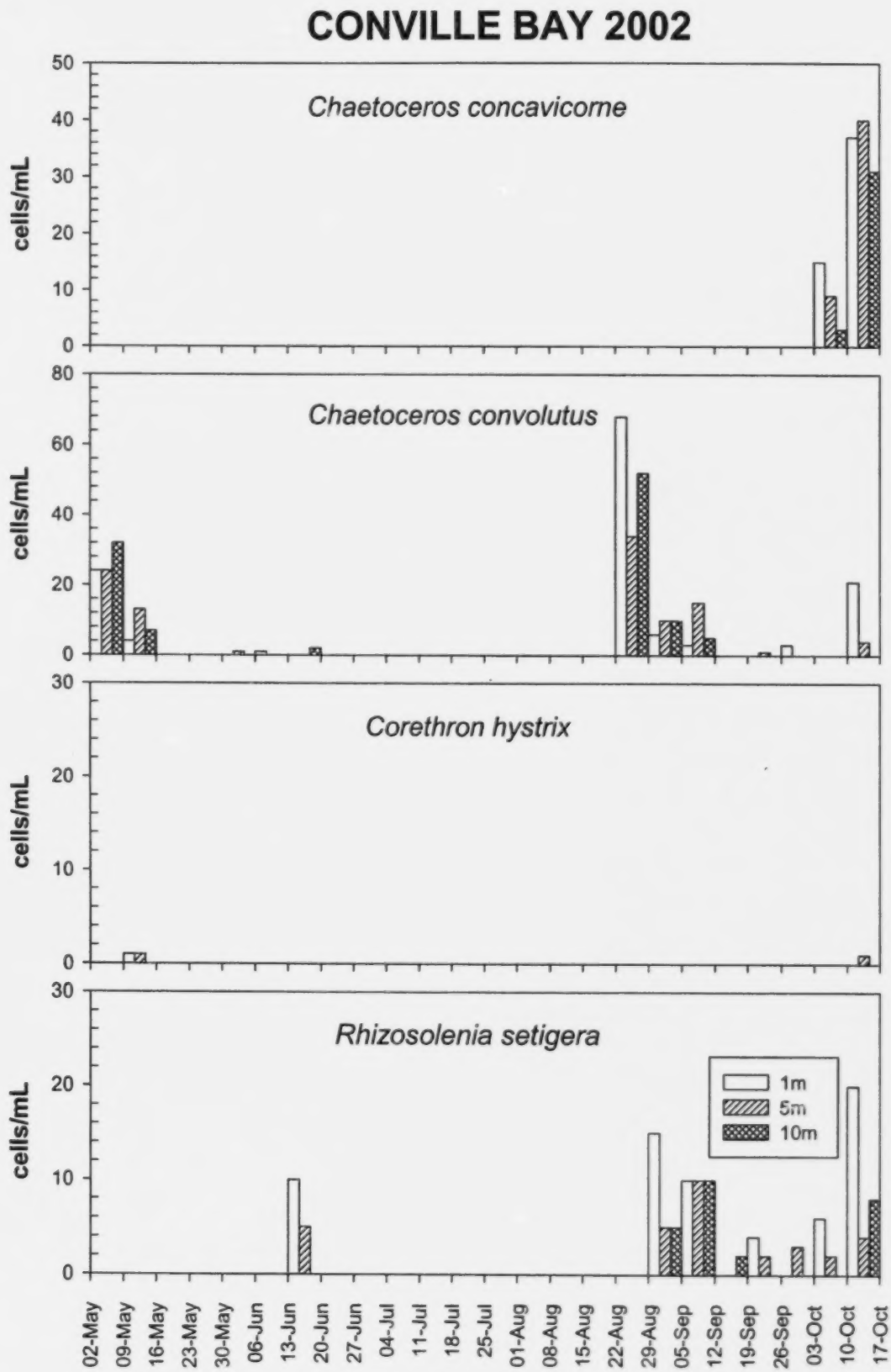

Figure 10: Harmful phytoplankton species in Conville Bay samples.

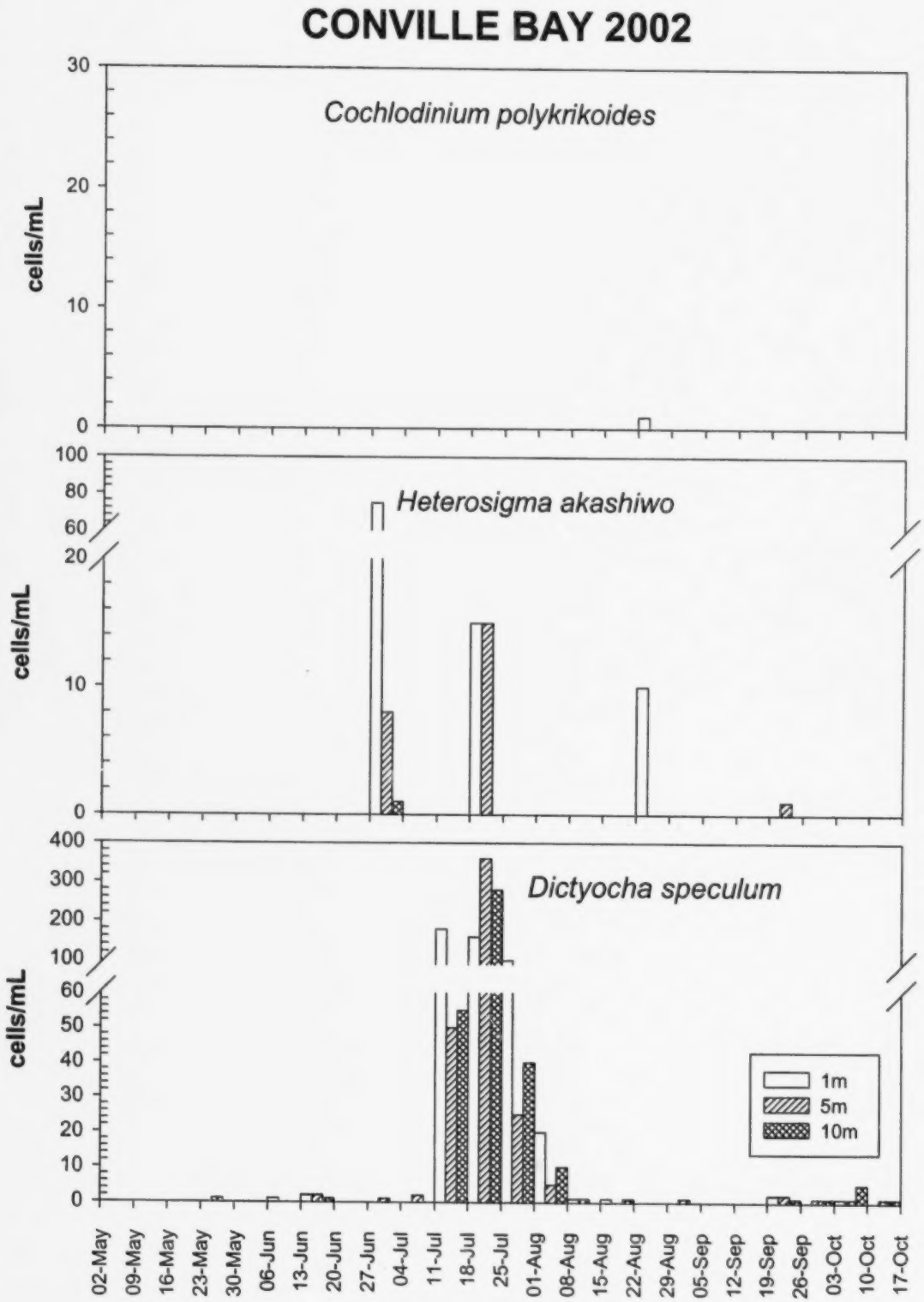

Figure 11: Harmful phytoplankton species in Conville Bay samples.

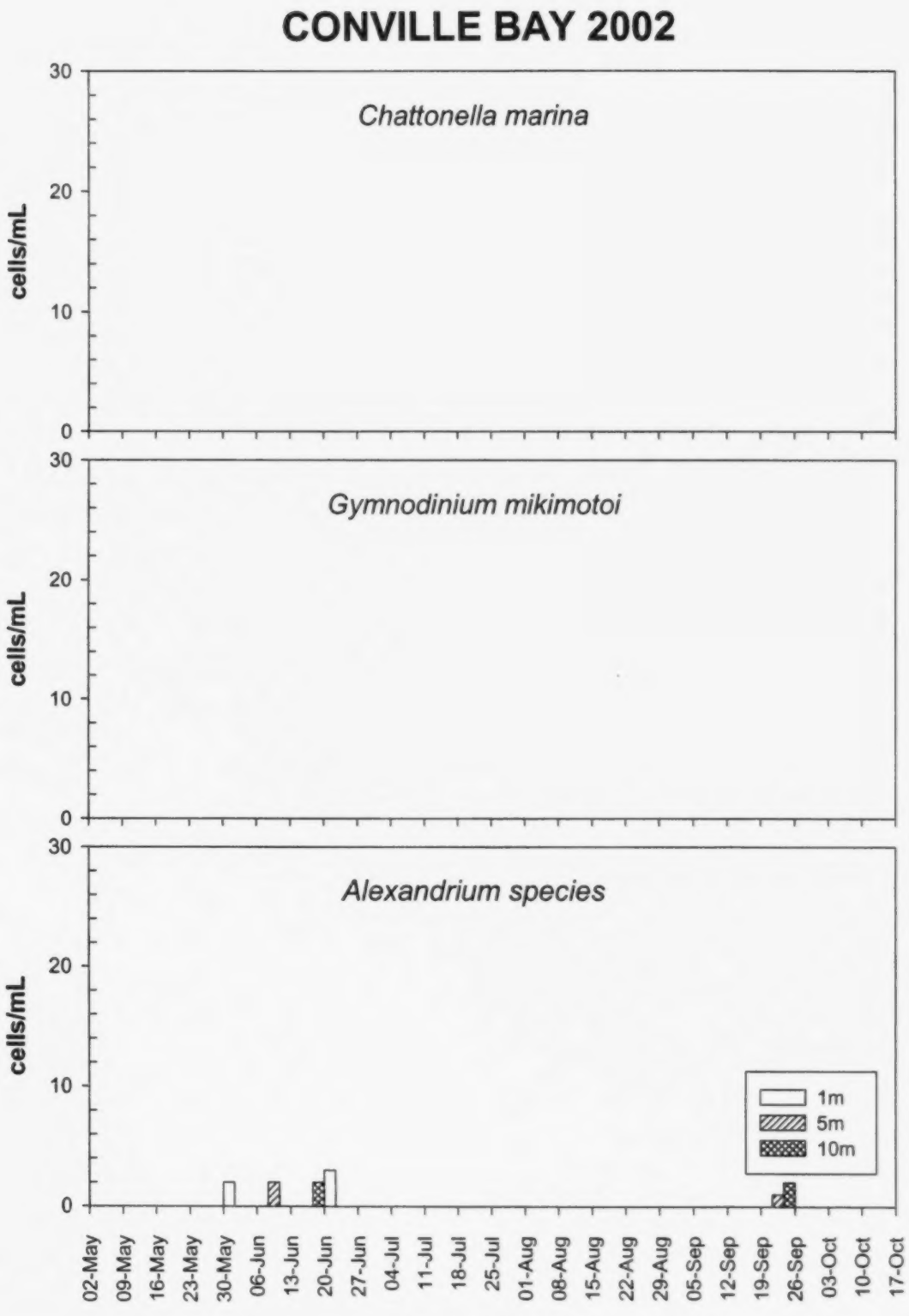

Figure 12: Harmful phytoplankton species in Conville Bay samples.

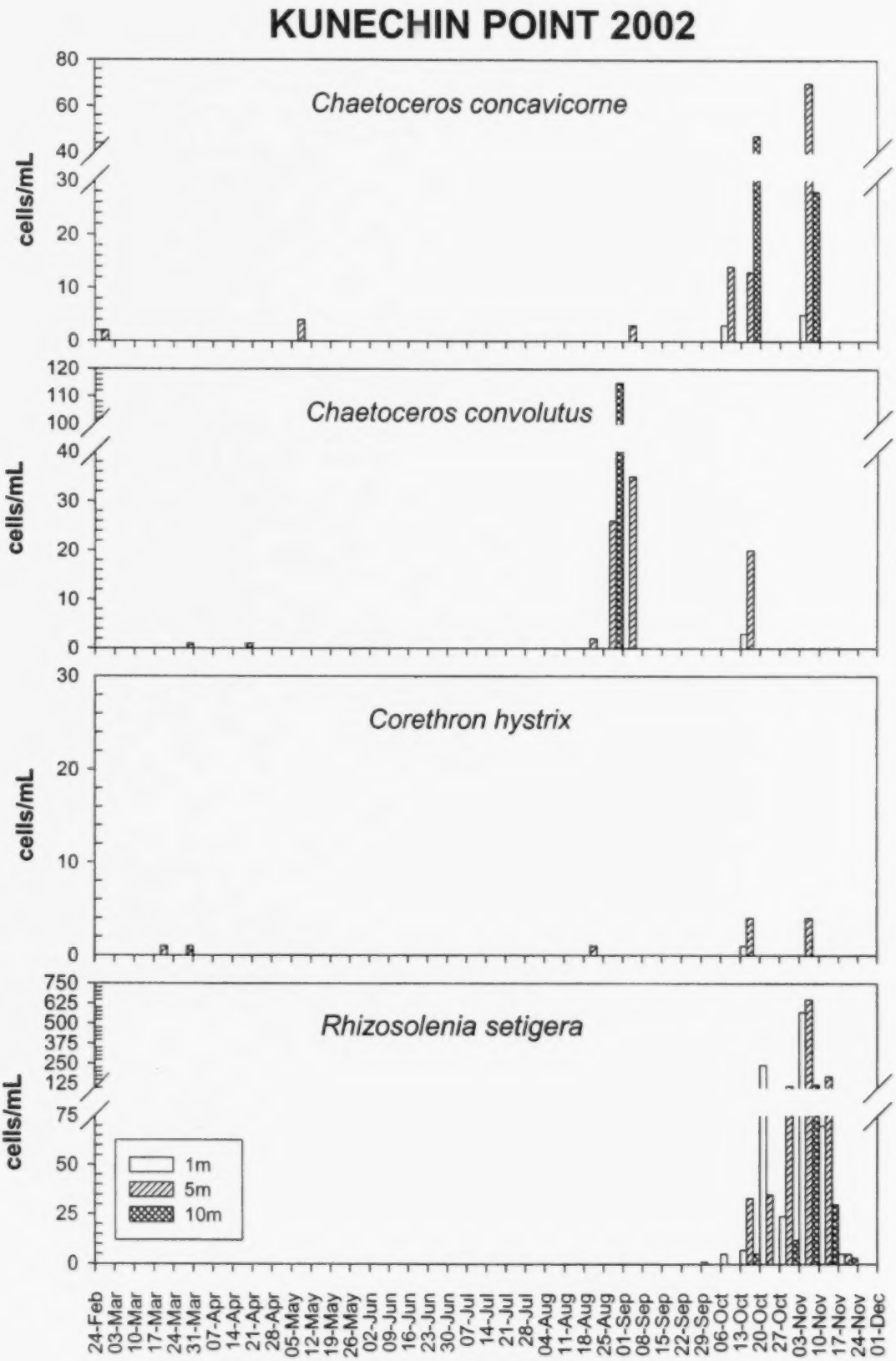

Figure 13: Harmful phytoplankton species in Kunechin Point samples.

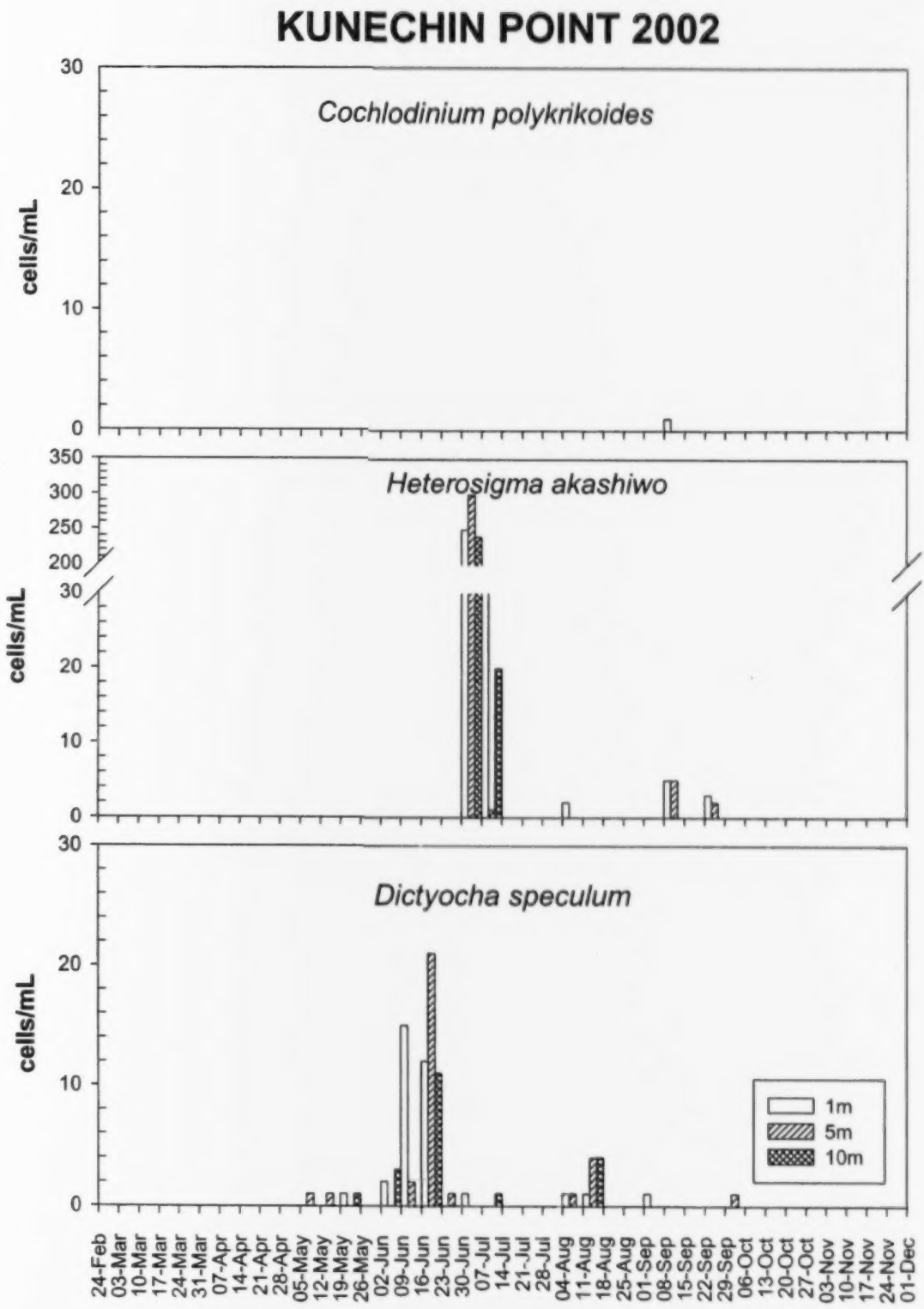

Figure 14: Harmful phytoplankton species in Kunechin Point samples.

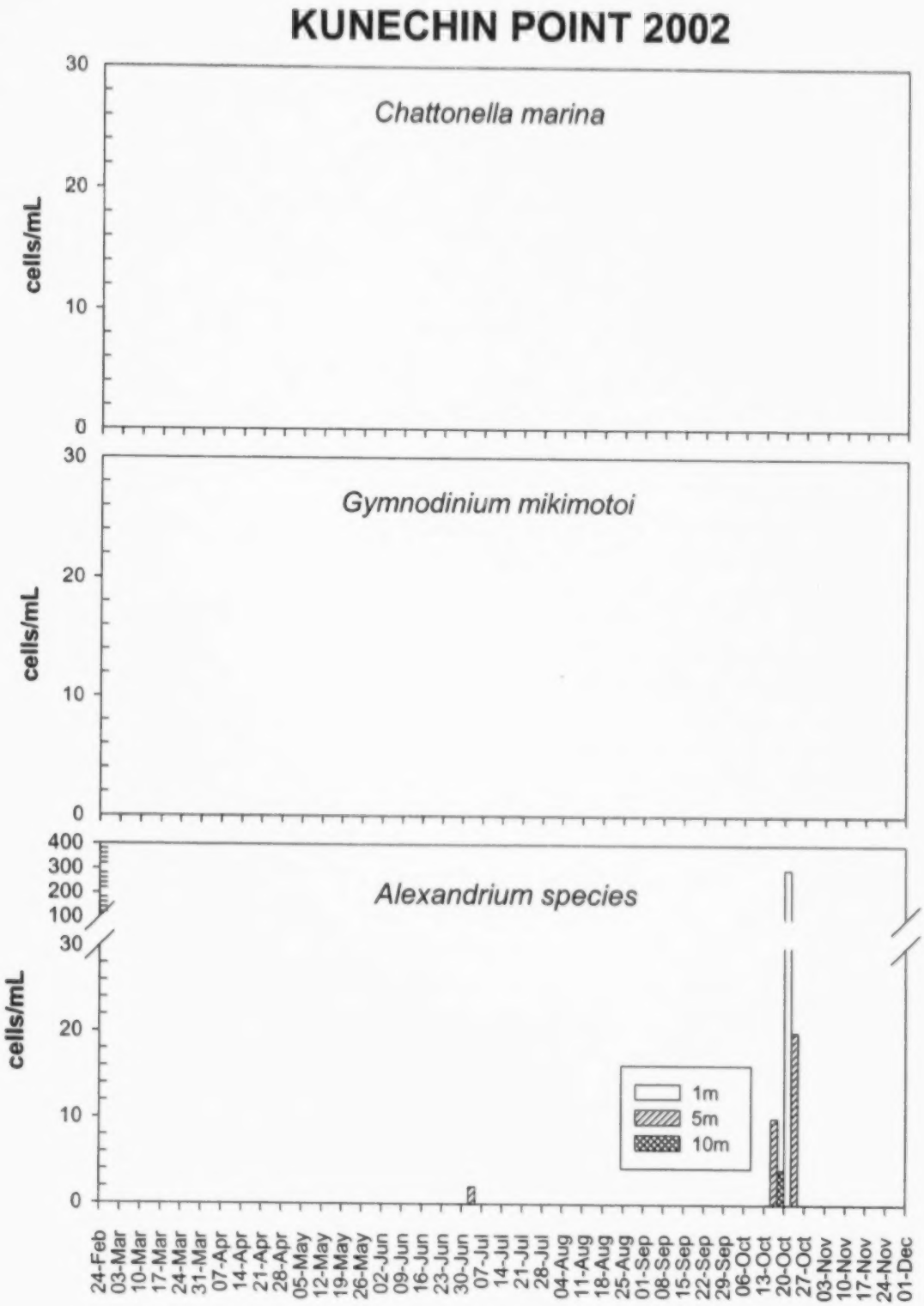

Figure 15: Harmful phytoplankton species in Kunechin Point samples.

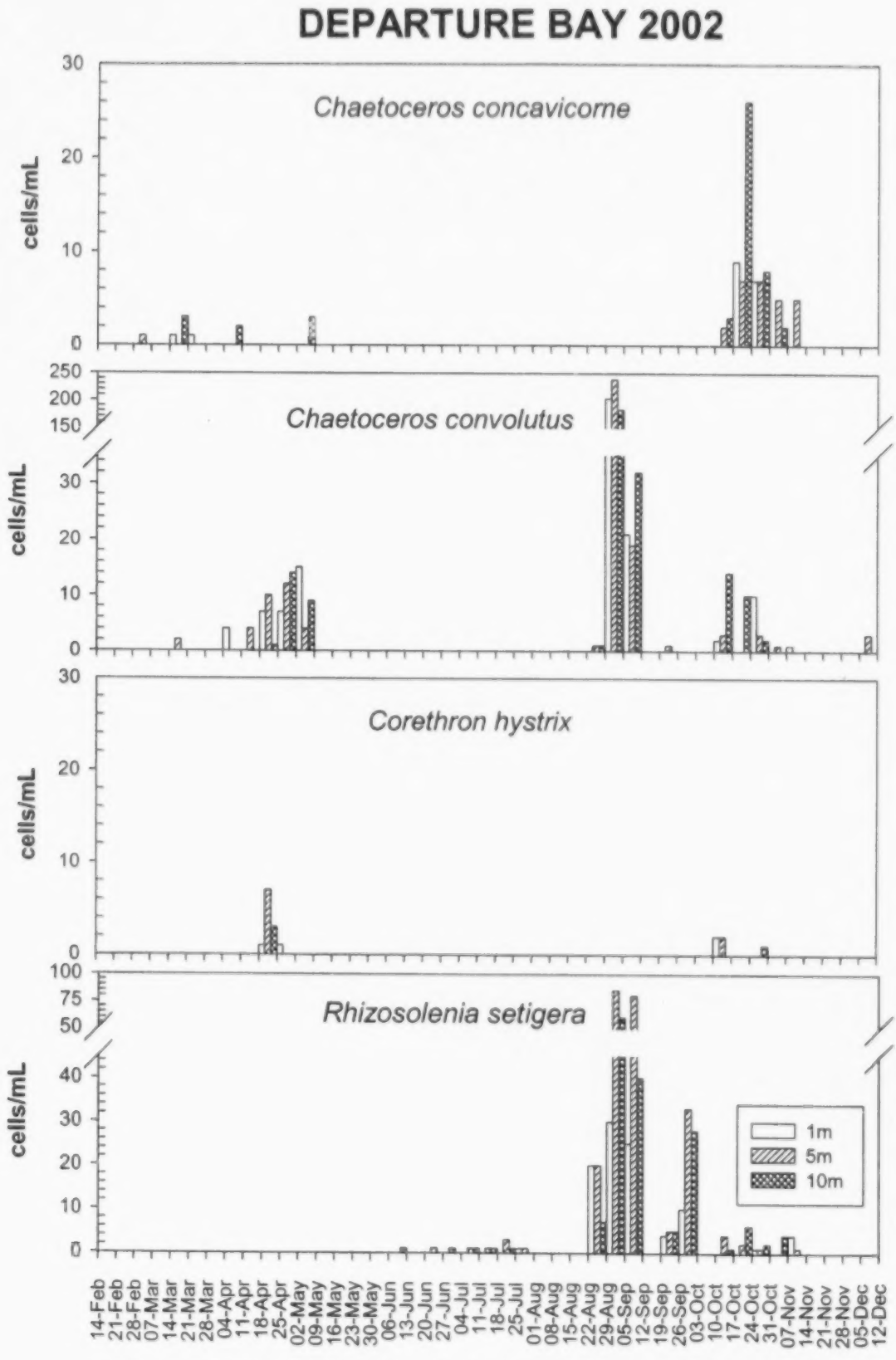

Figure 16: Harmful phytoplankton species in Departure Bay samples.

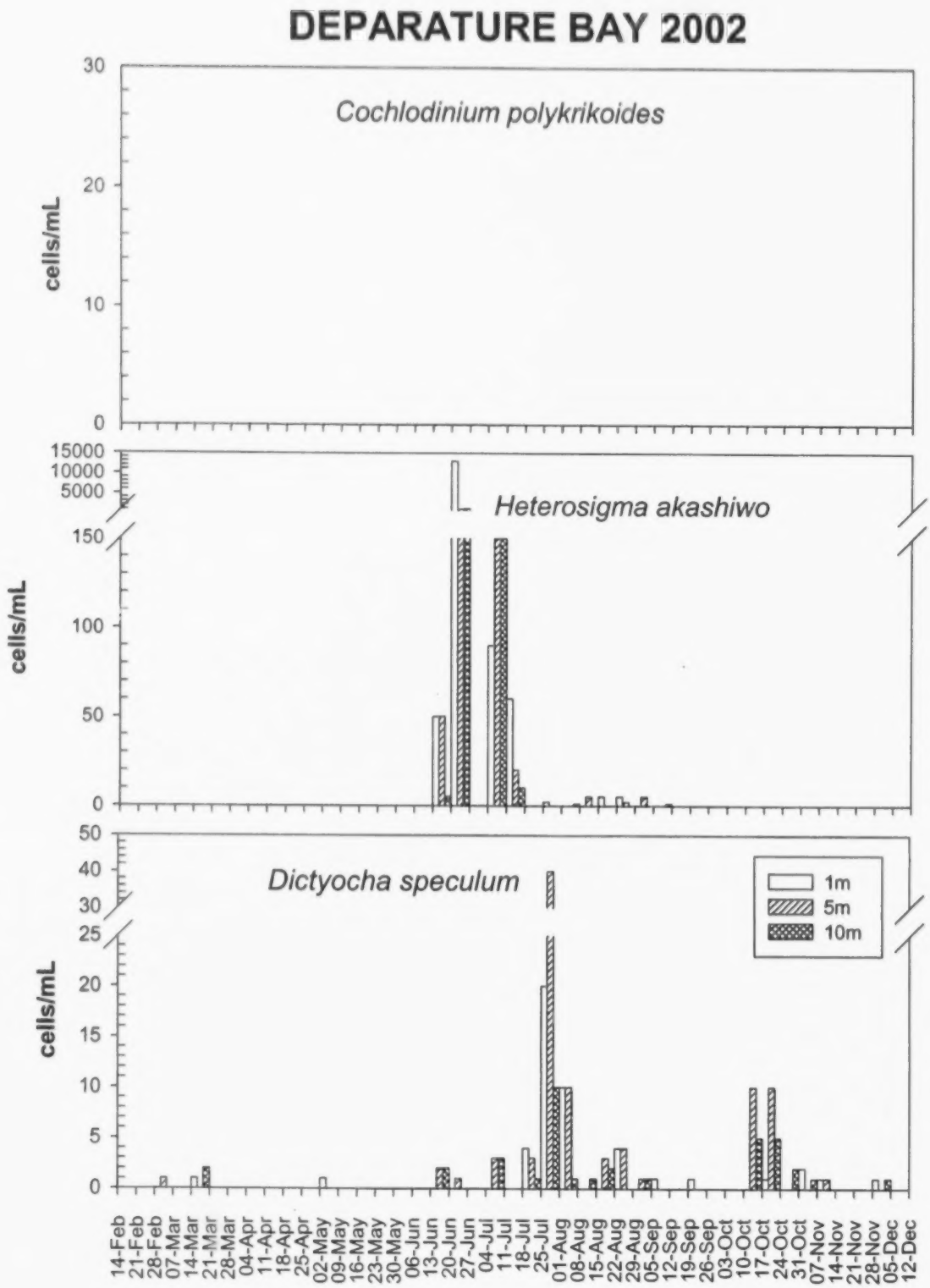

Figure 17: Harmful phytoplankton species in Departure Bay samples.

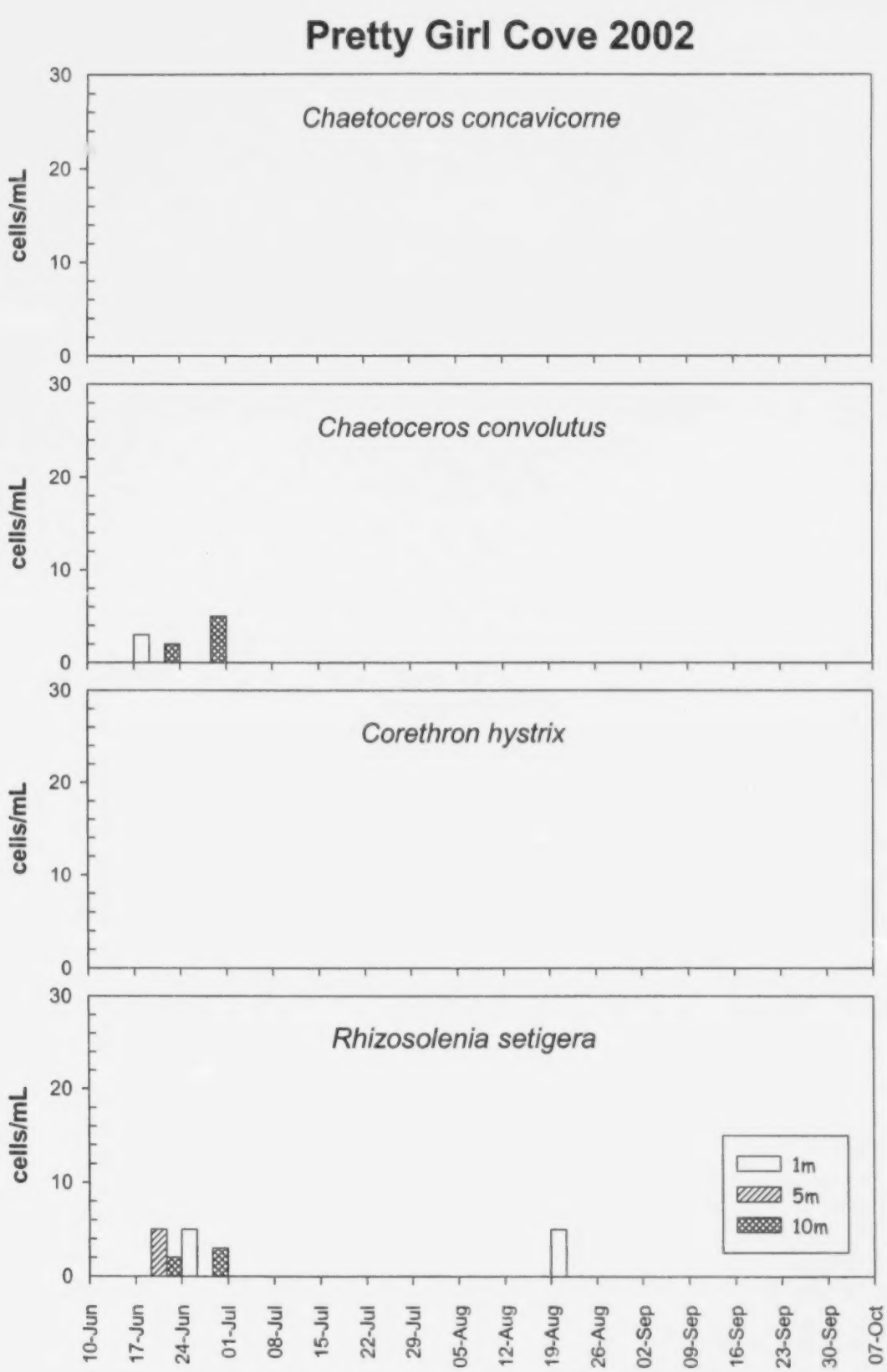

Figure 18: Harmful phytoplankton species in Pretty Girl Cove samples.

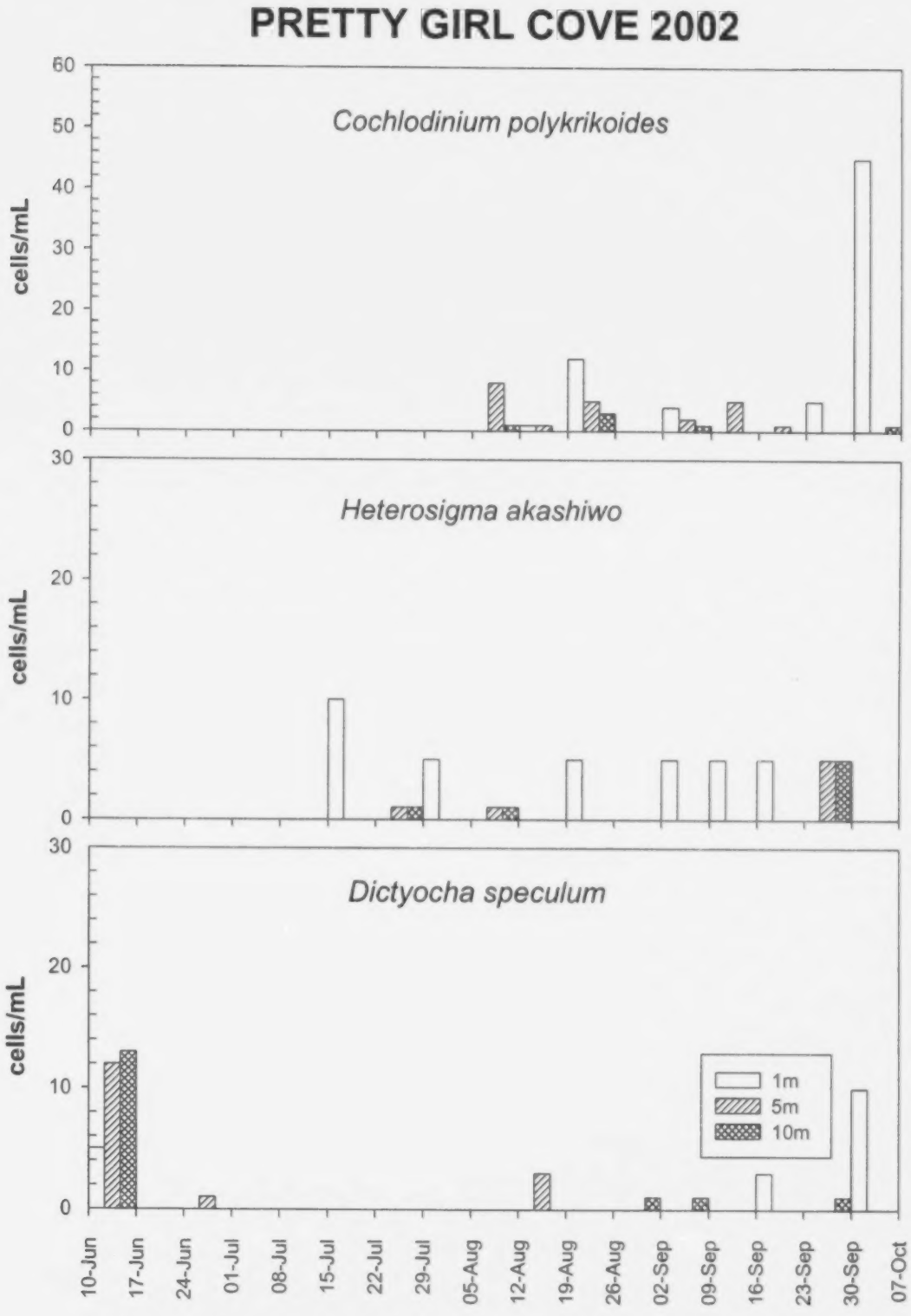

Figure 19: Harmful phytoplankton species in Pretty Girl Cove samples.

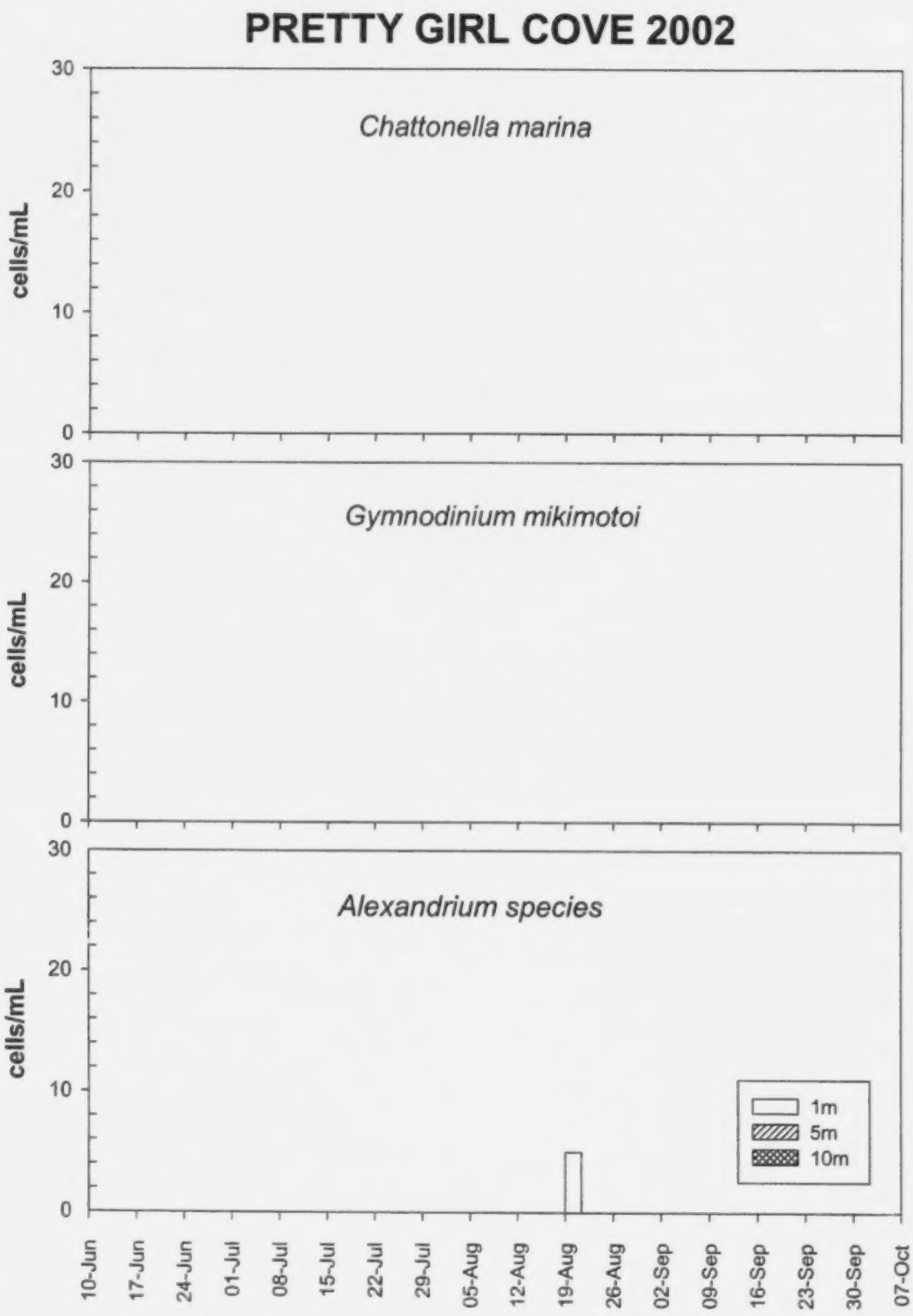

Figure 20: Harmful phytoplankton species in Pretty Girl Cove samples.

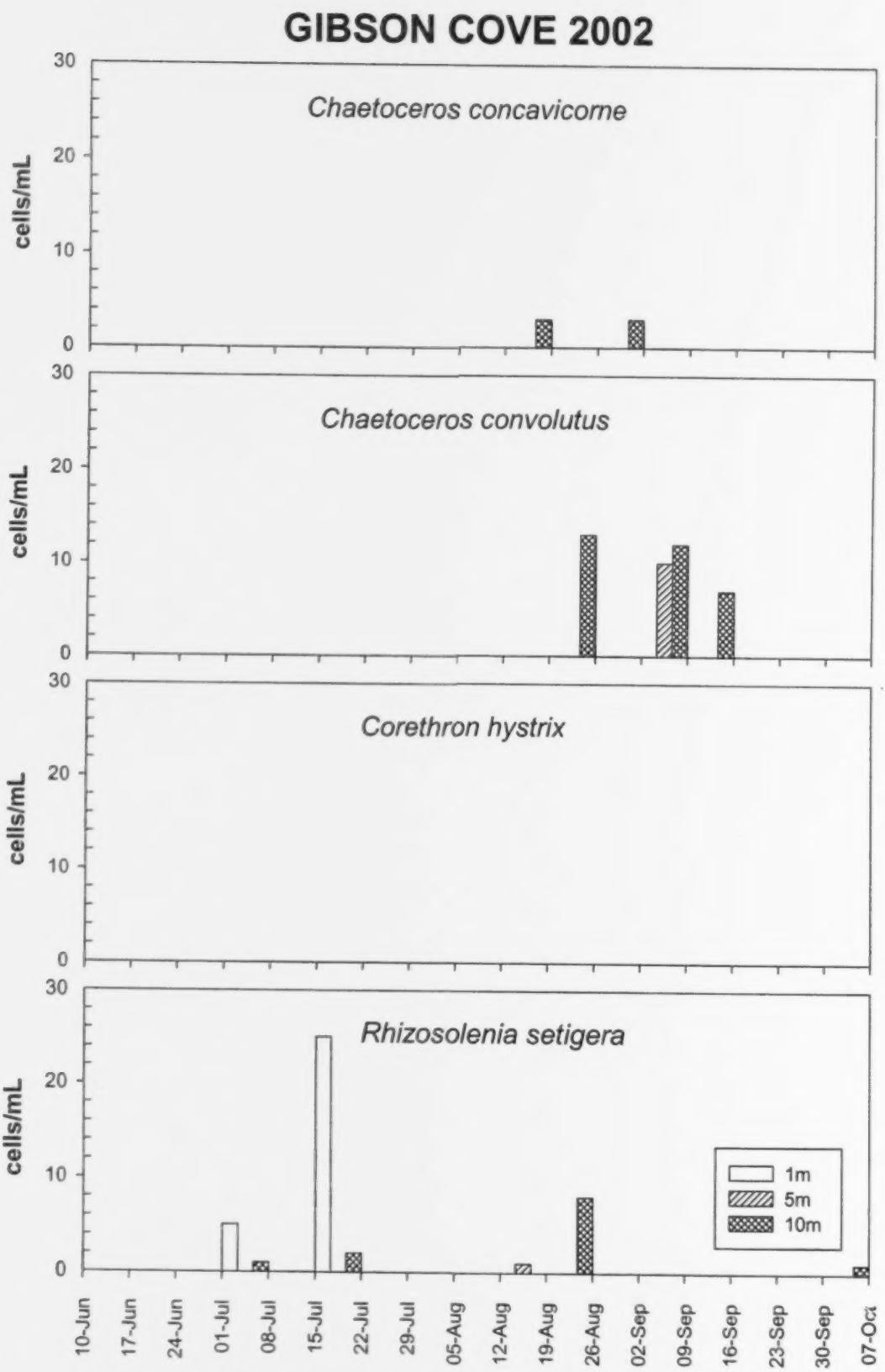

Figure 21: Harmful phytoplankton species in Gibson Cove samples.

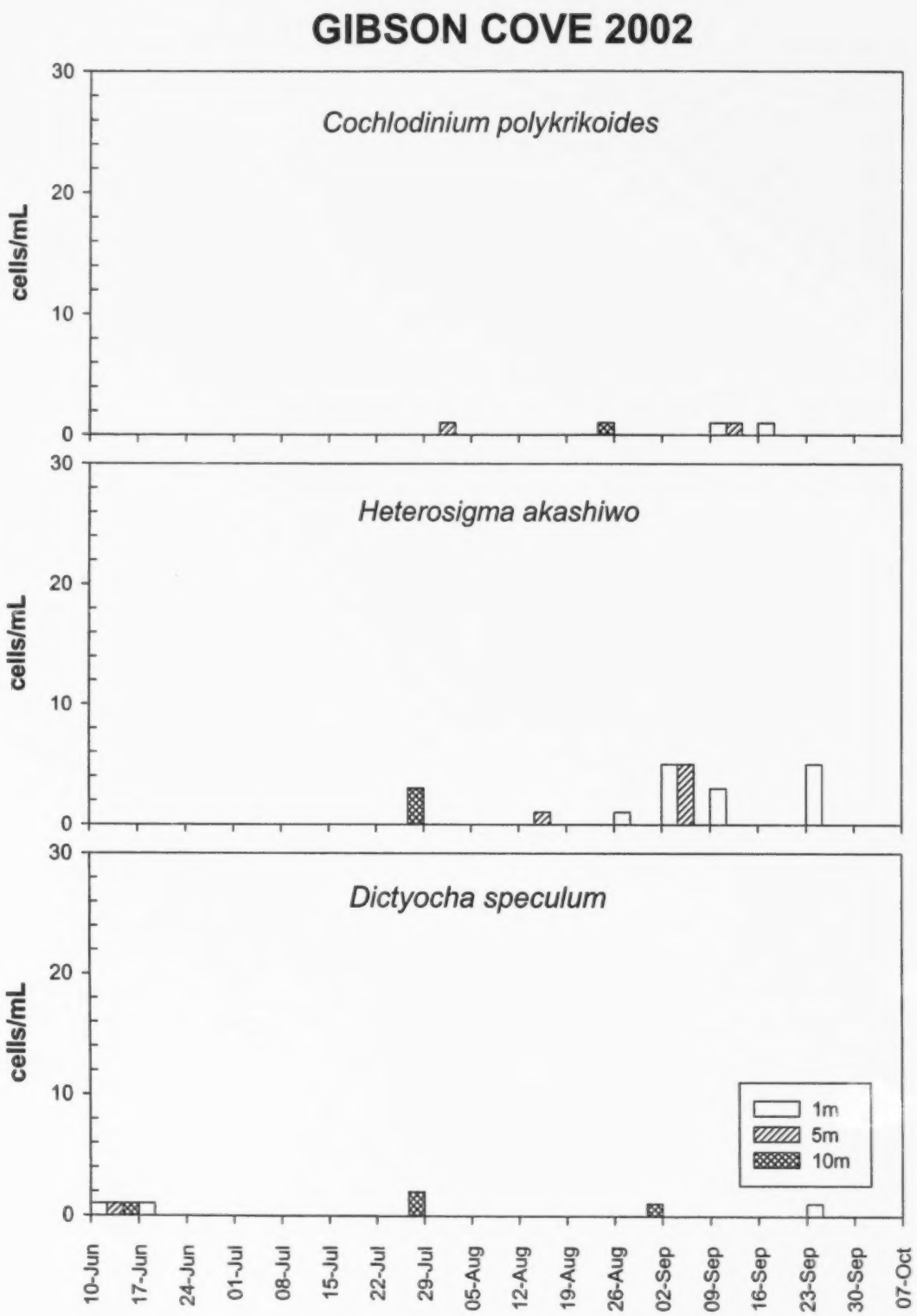

Figure 22: Harmful phytoplankton species in Gibson Cove samples.

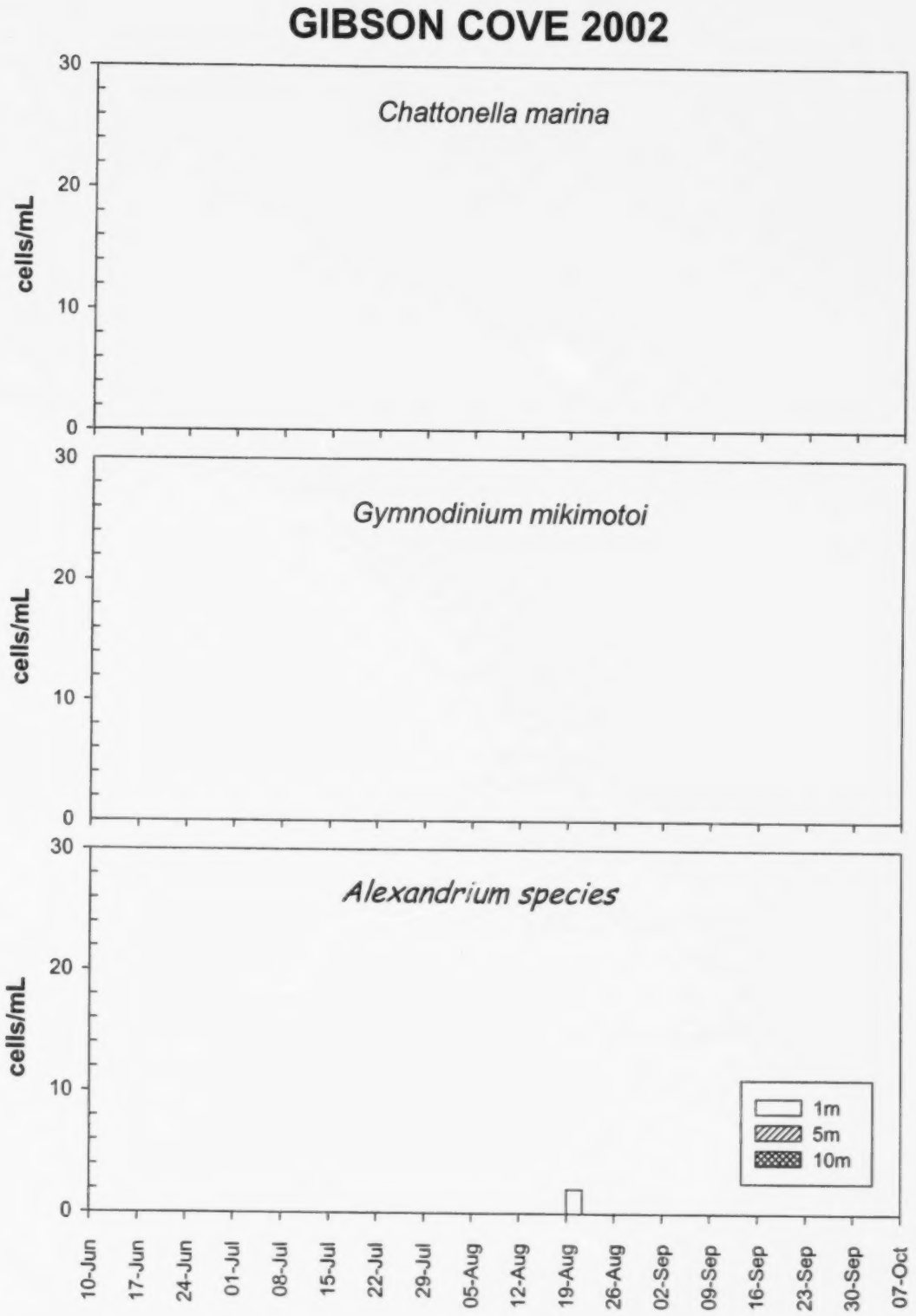

Figure 23: Harmful phytoplankton species in Gibson Cove samples.

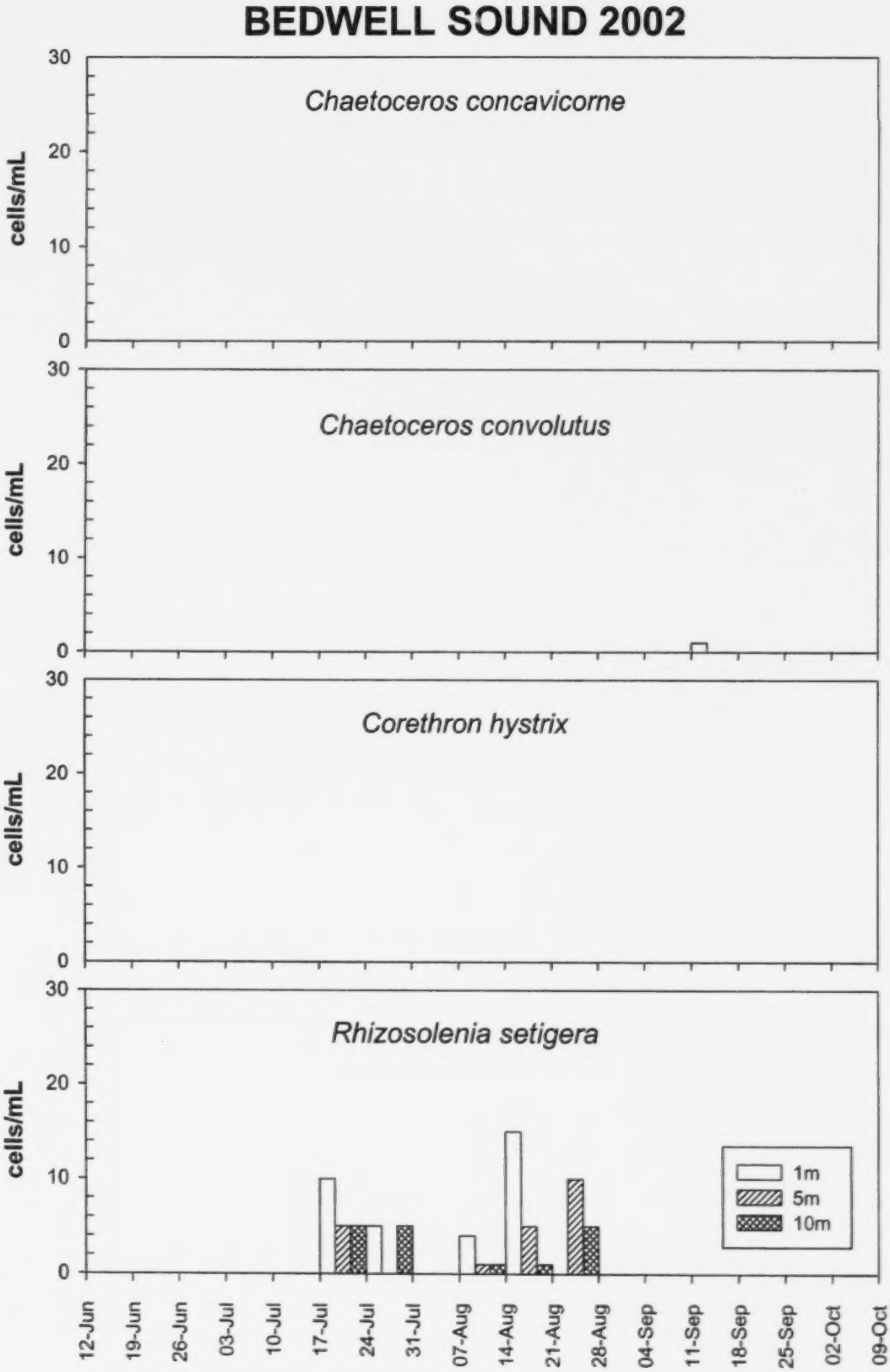

Figure 24: Harmful phytoplankton species in Bedwell Sound samples.

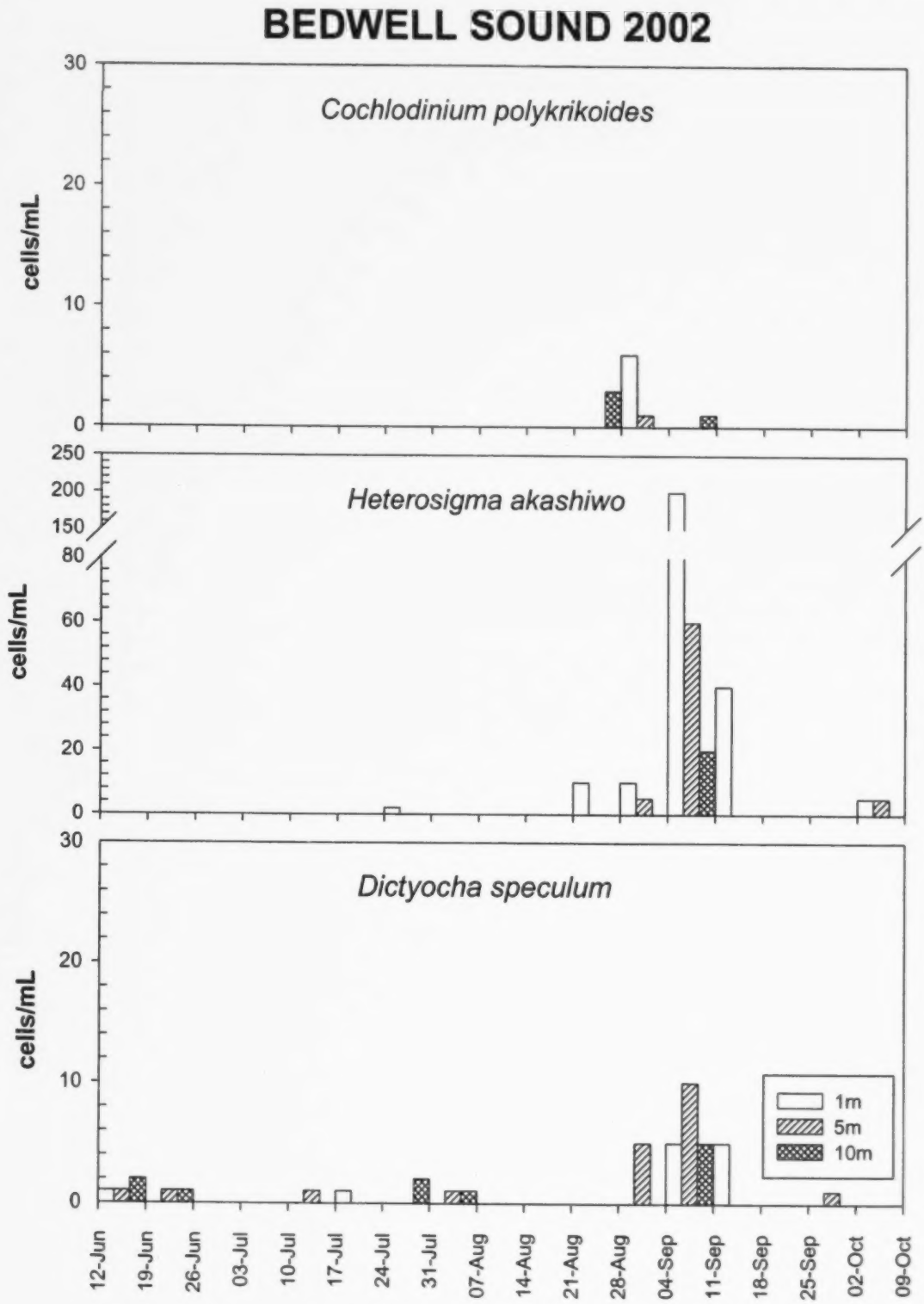

Figure 25: Harmful phytoplankton species in Bedwell Sound samples.

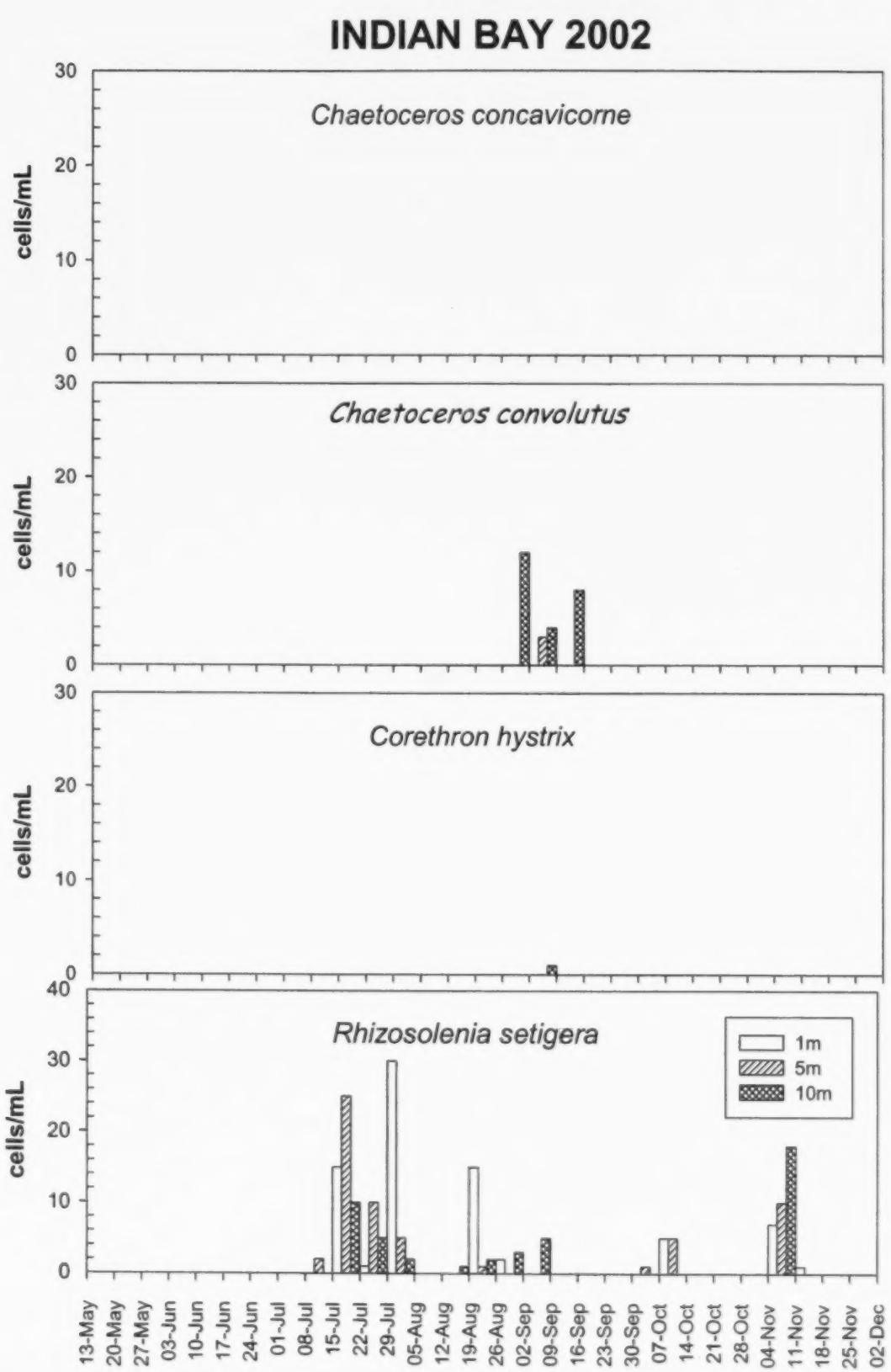

Figure 26: Harmful phytoplankton species in Indian Bay samples.

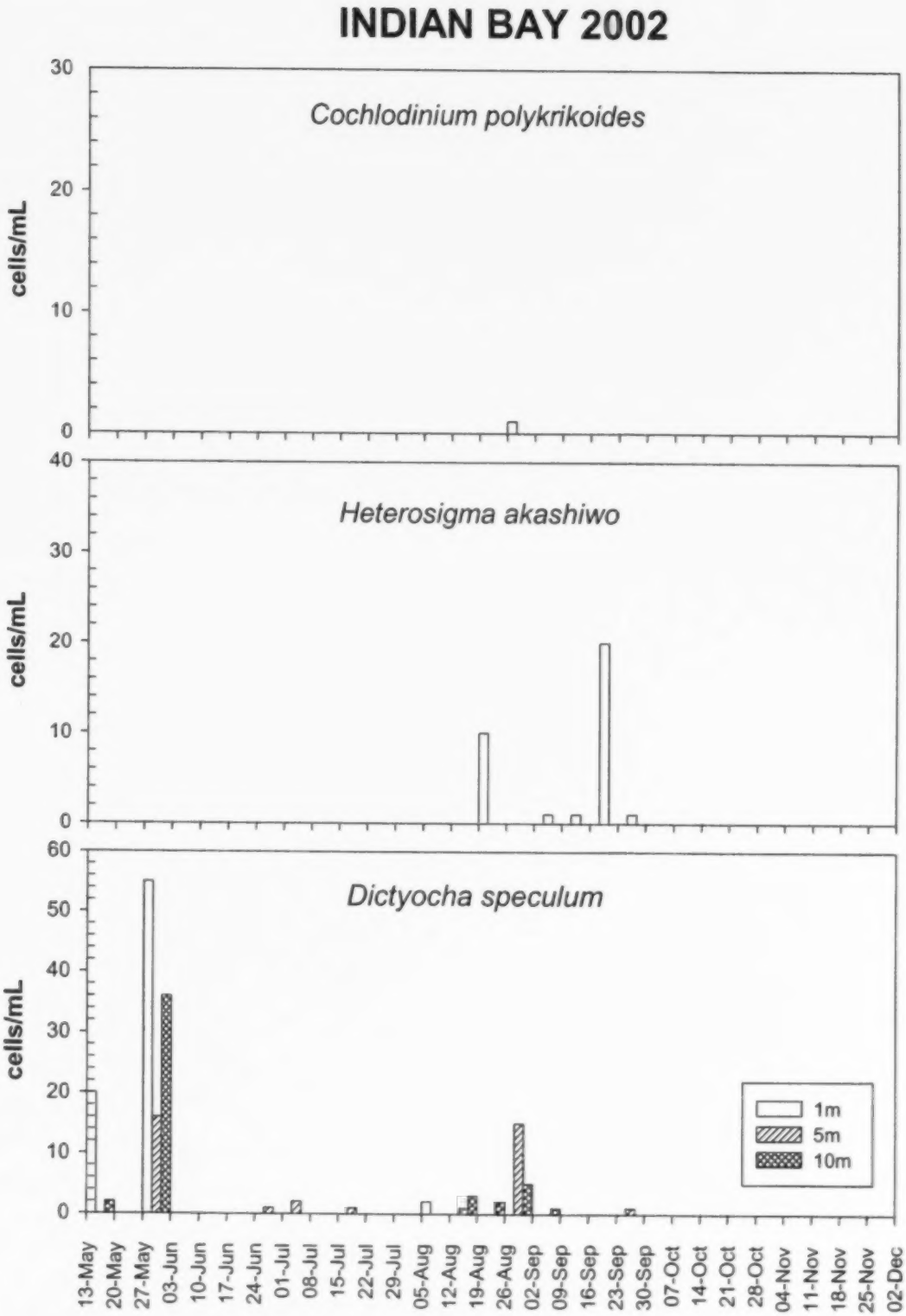

Figure 27: Harmful phytoplankton species in Indian Bay samples.

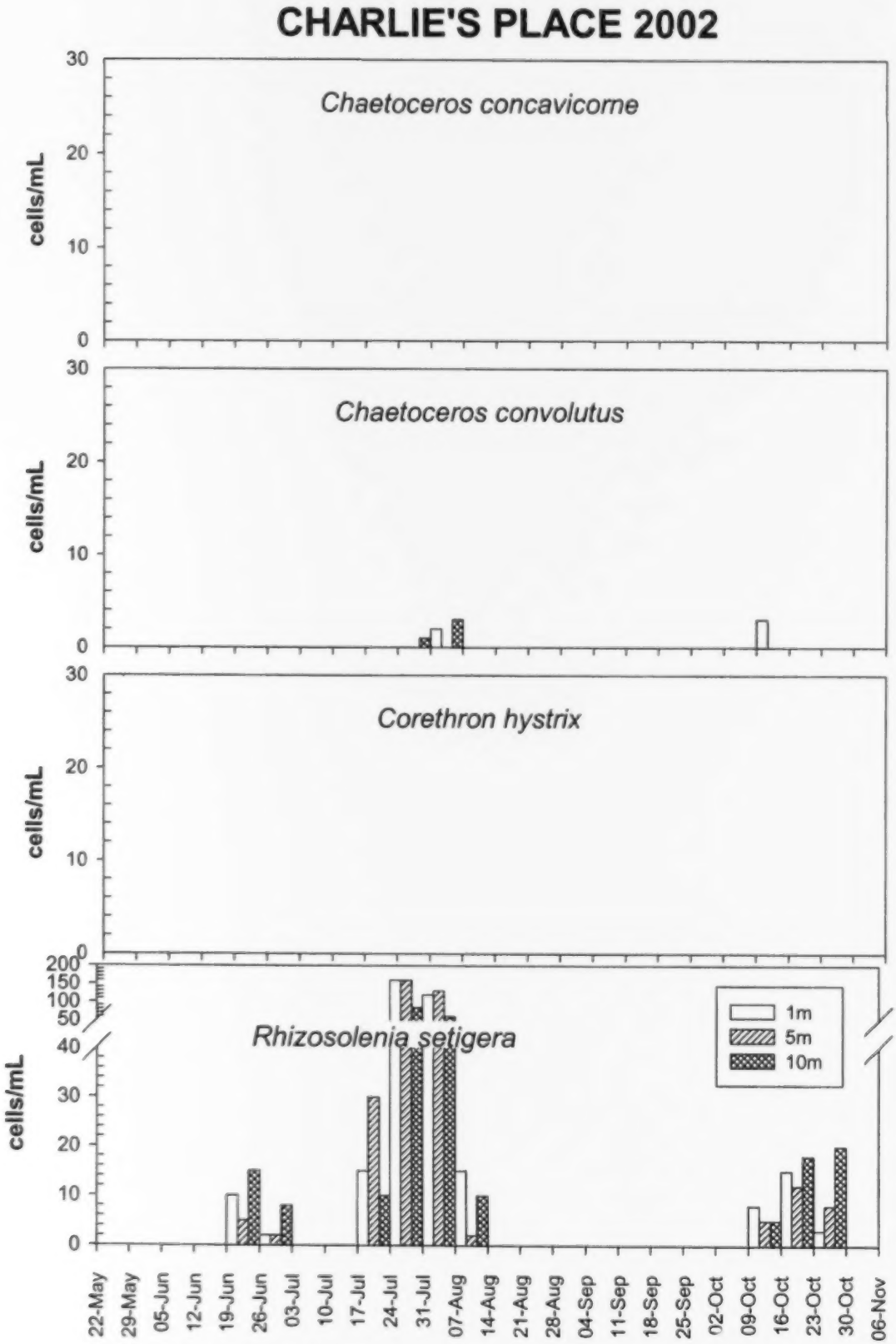

Figure 28: Harmful phytoplankton species in Charlie's Place samples.

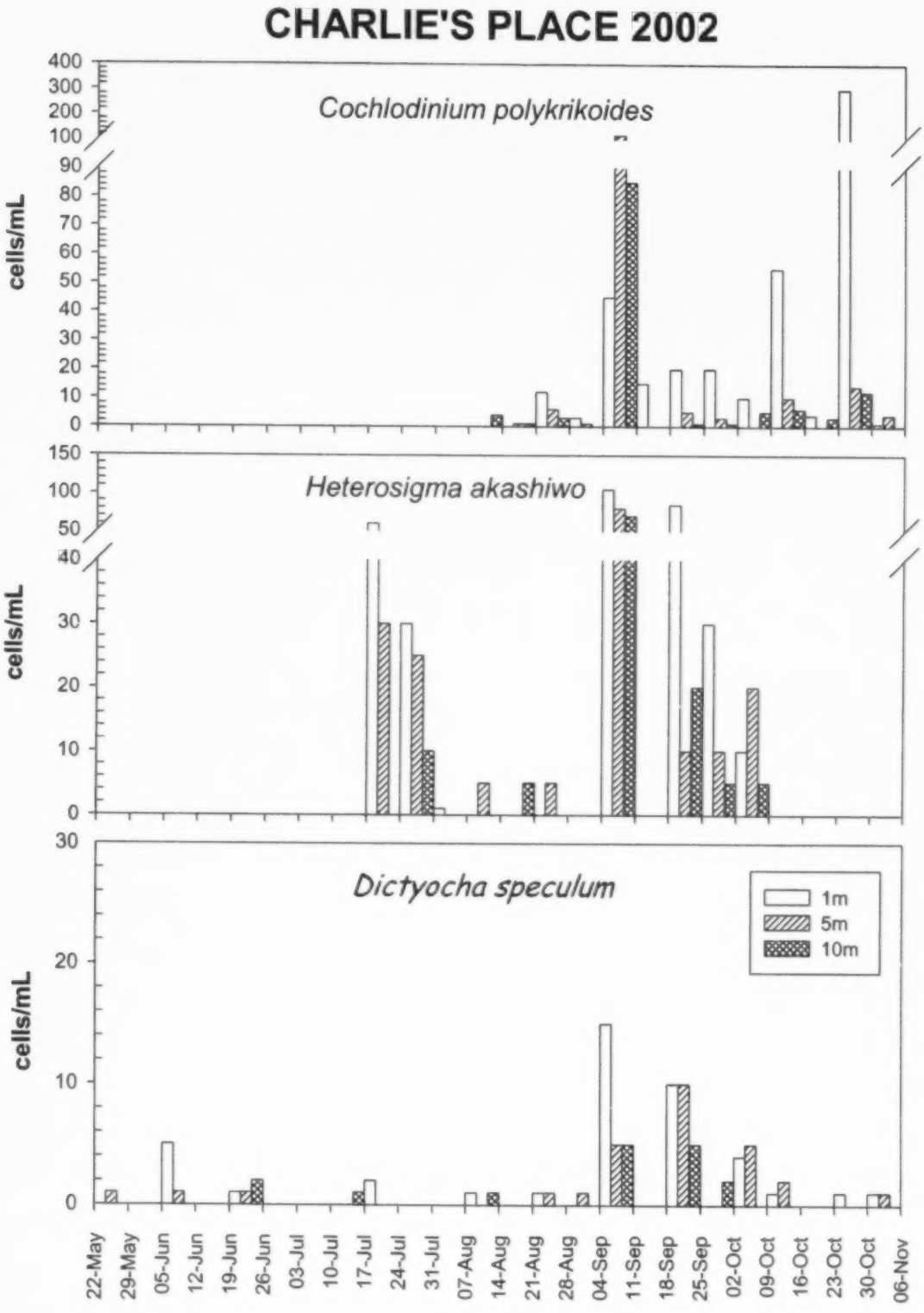

Figure 29: Harmful phytoplankton species in Charlie's Place samples.

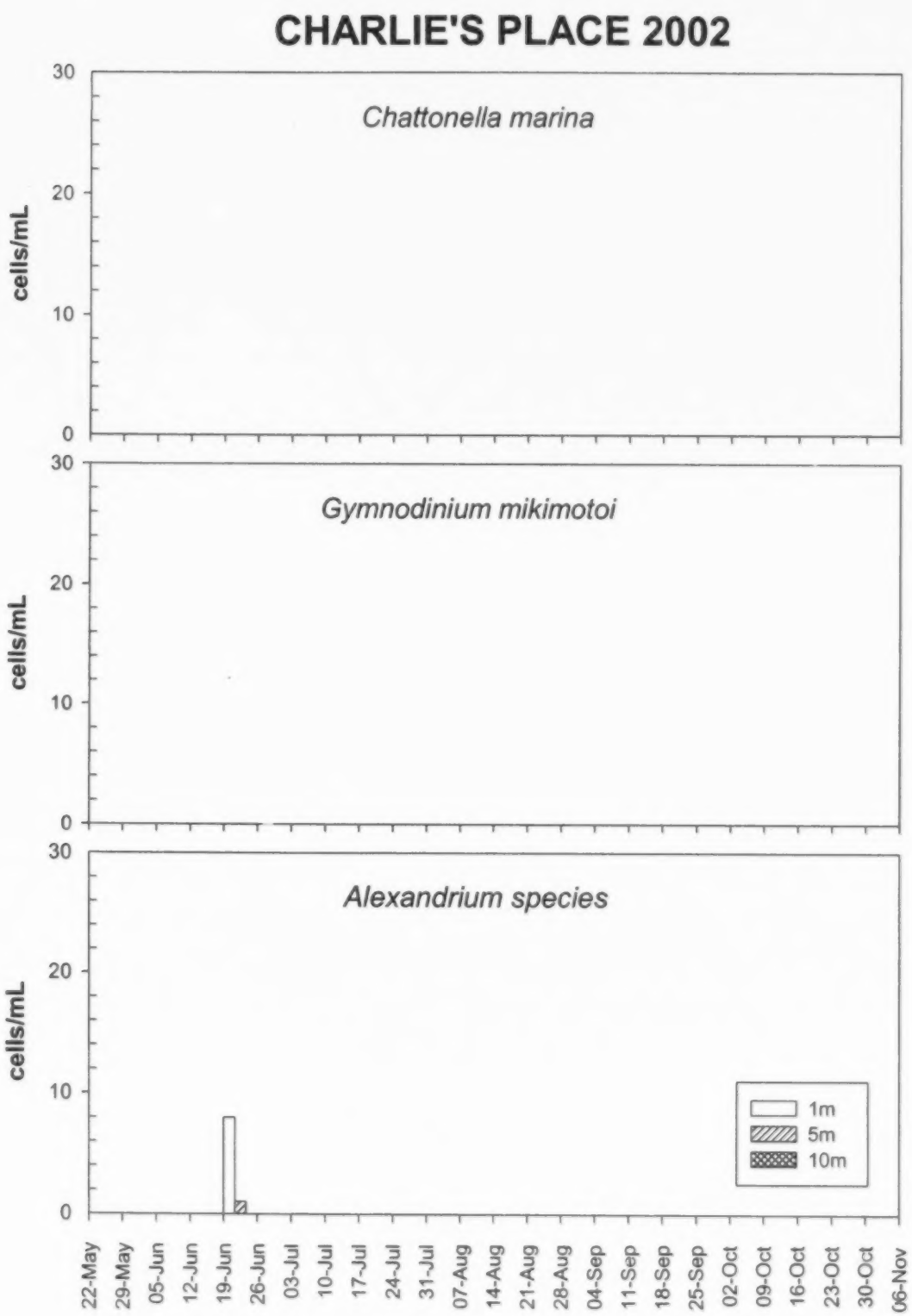

Figure 30: Harmful phytoplankton species in Charlie's Place samples.

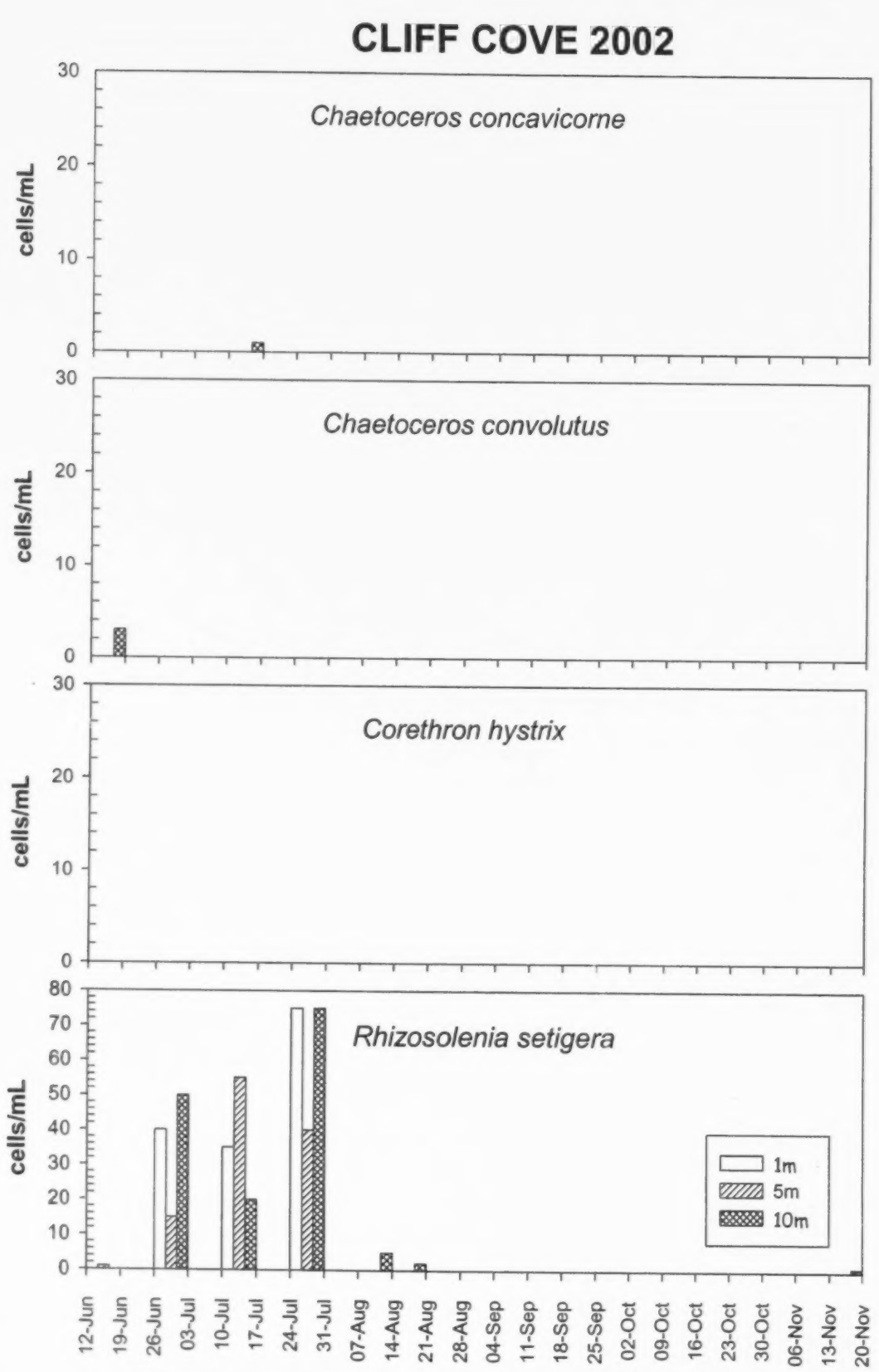

Figure 31: Harmful phytoplankton species in Cliff Cove samples.

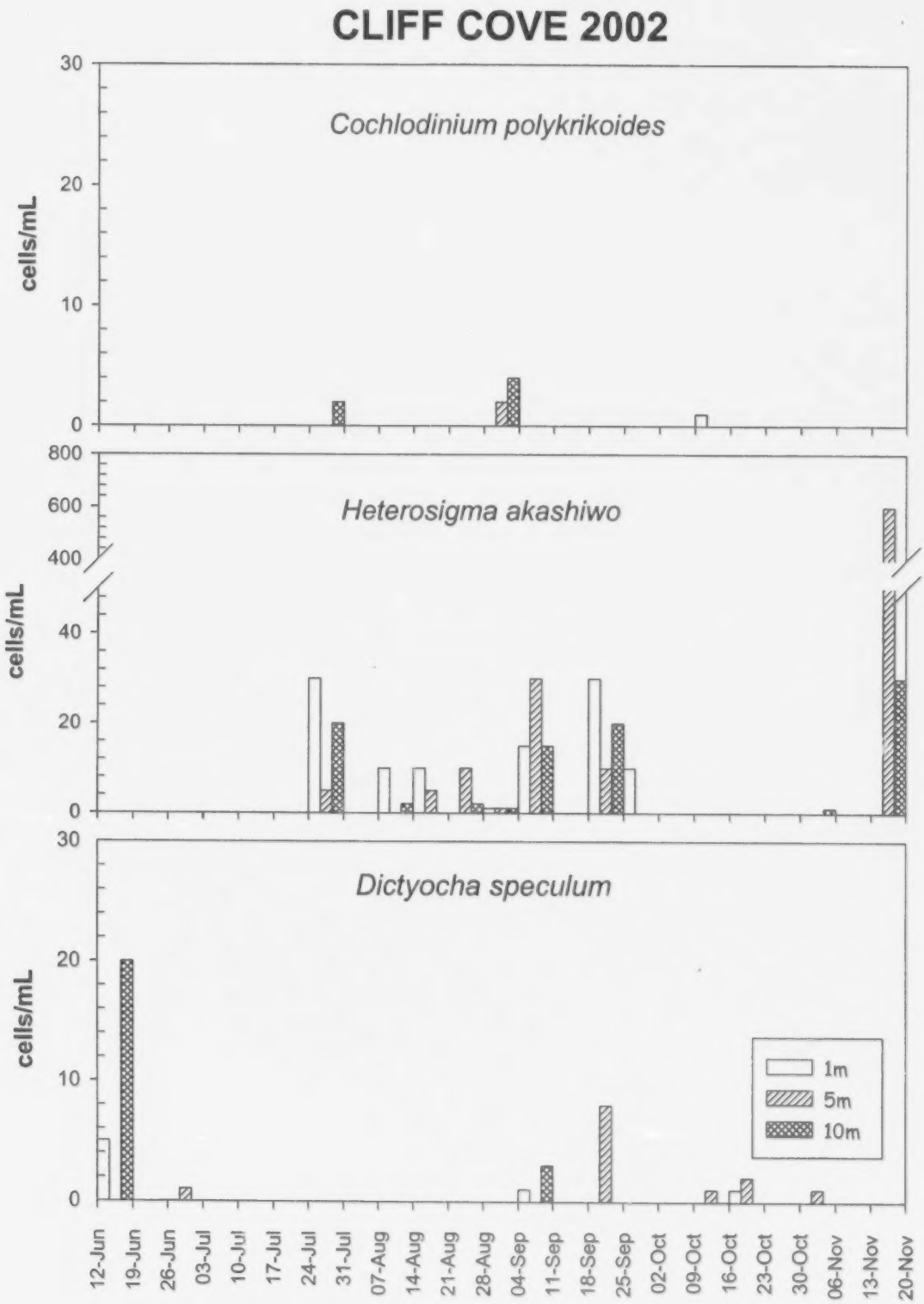

Figure 32: Harmful phytoplankton species in Cliff Cove samples.

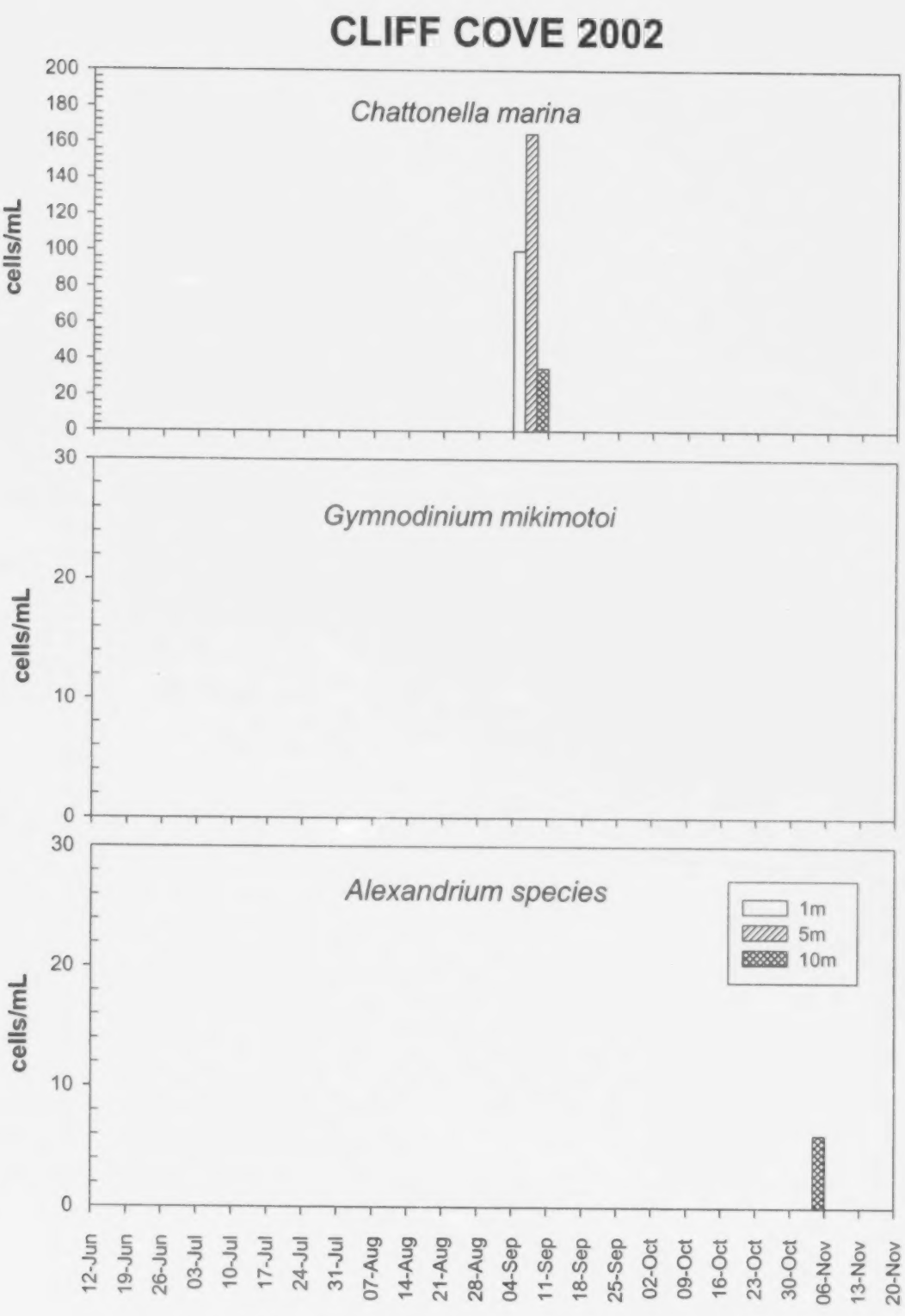

Figure 33: Harmful phytoplankton species in Cliff Cove samples.

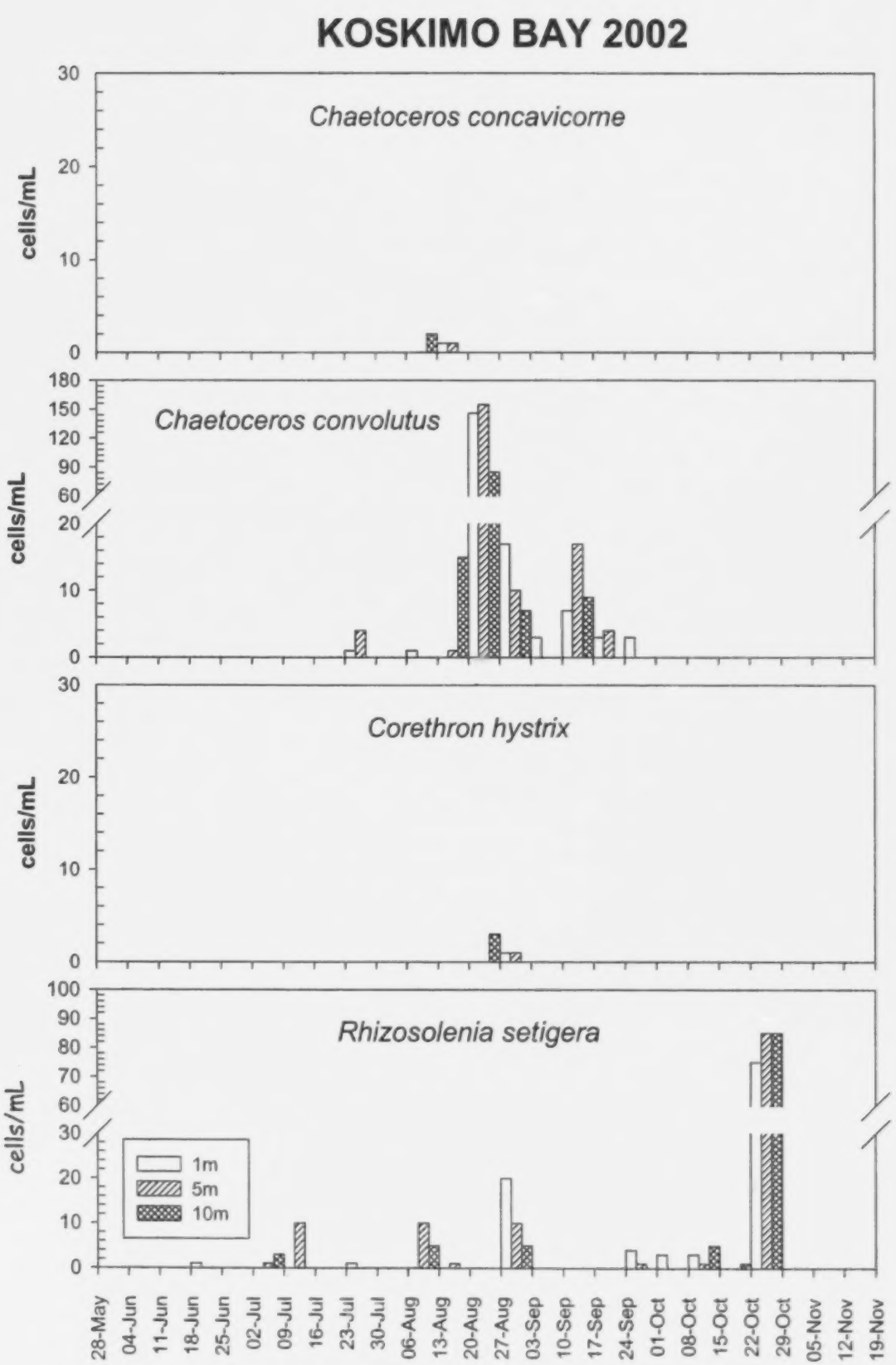

Figure 34: Harmful phytoplankton species in Koskimo Bay samples.

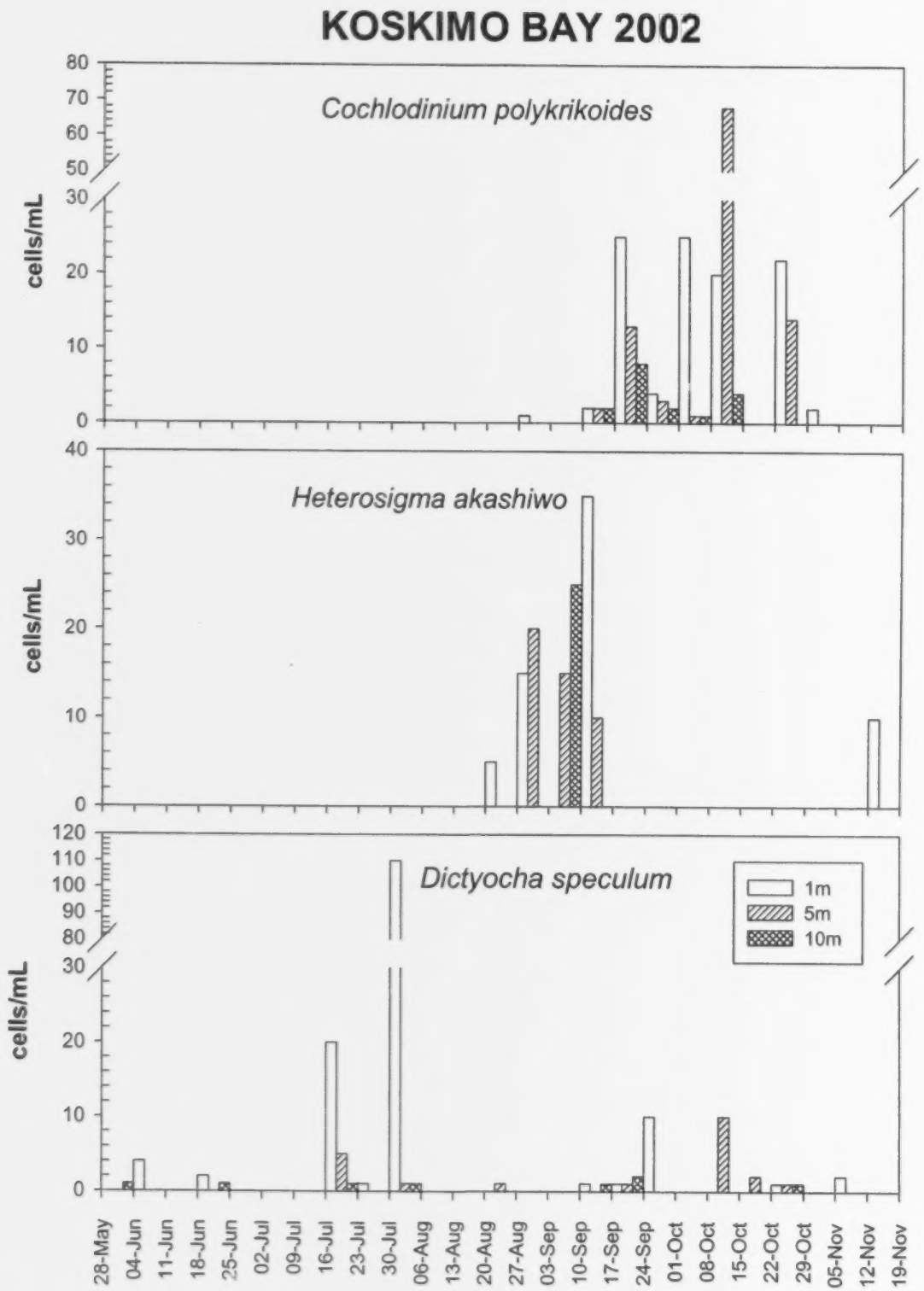

Figure 35: Harmful phytoplankton species in Koskimo Bay samples.

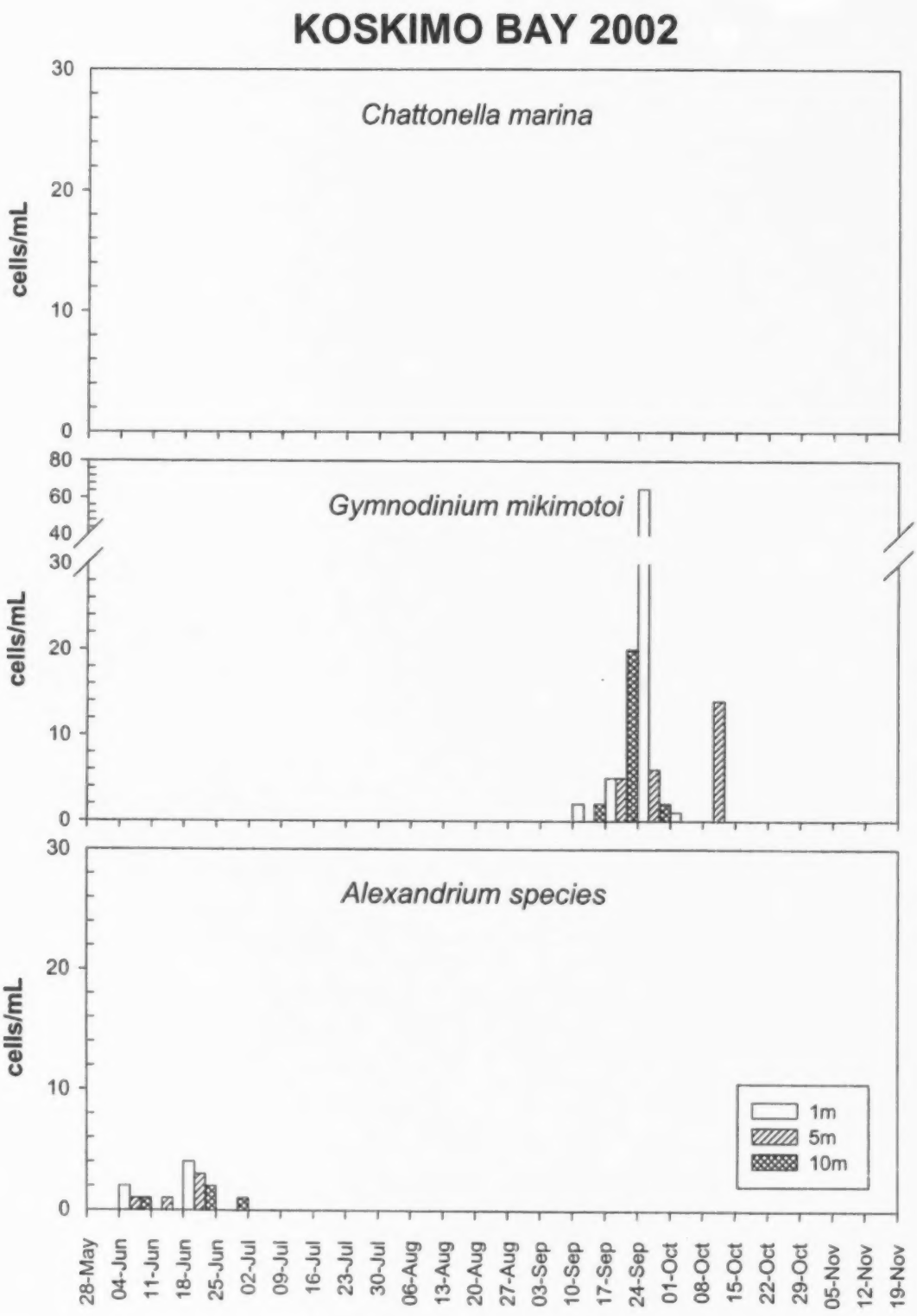

Figure 36: Harmful phytoplankton species in Koskimo Bay samples.

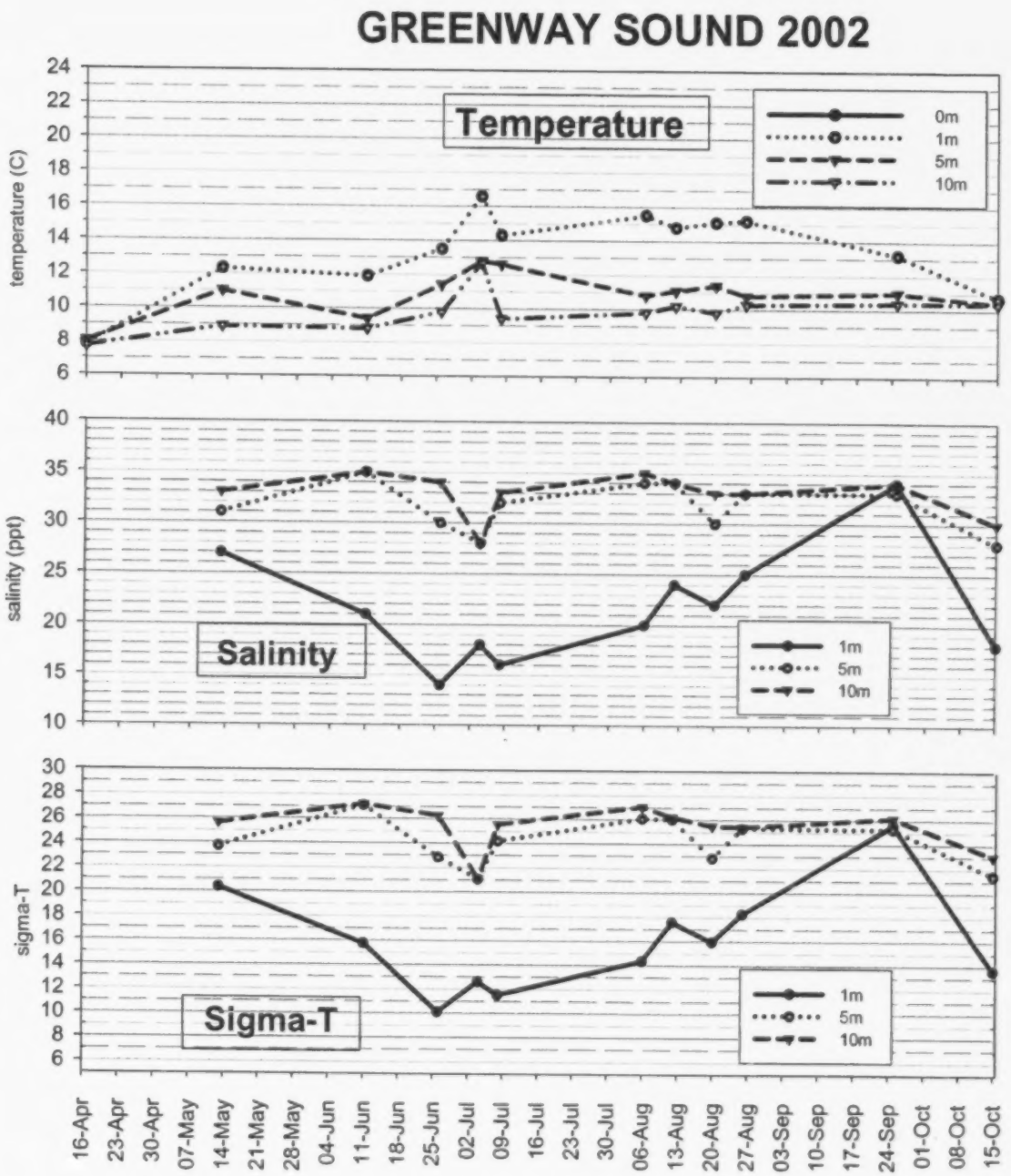

Figure 37: Environmental monitoring data for Greenway Sound.

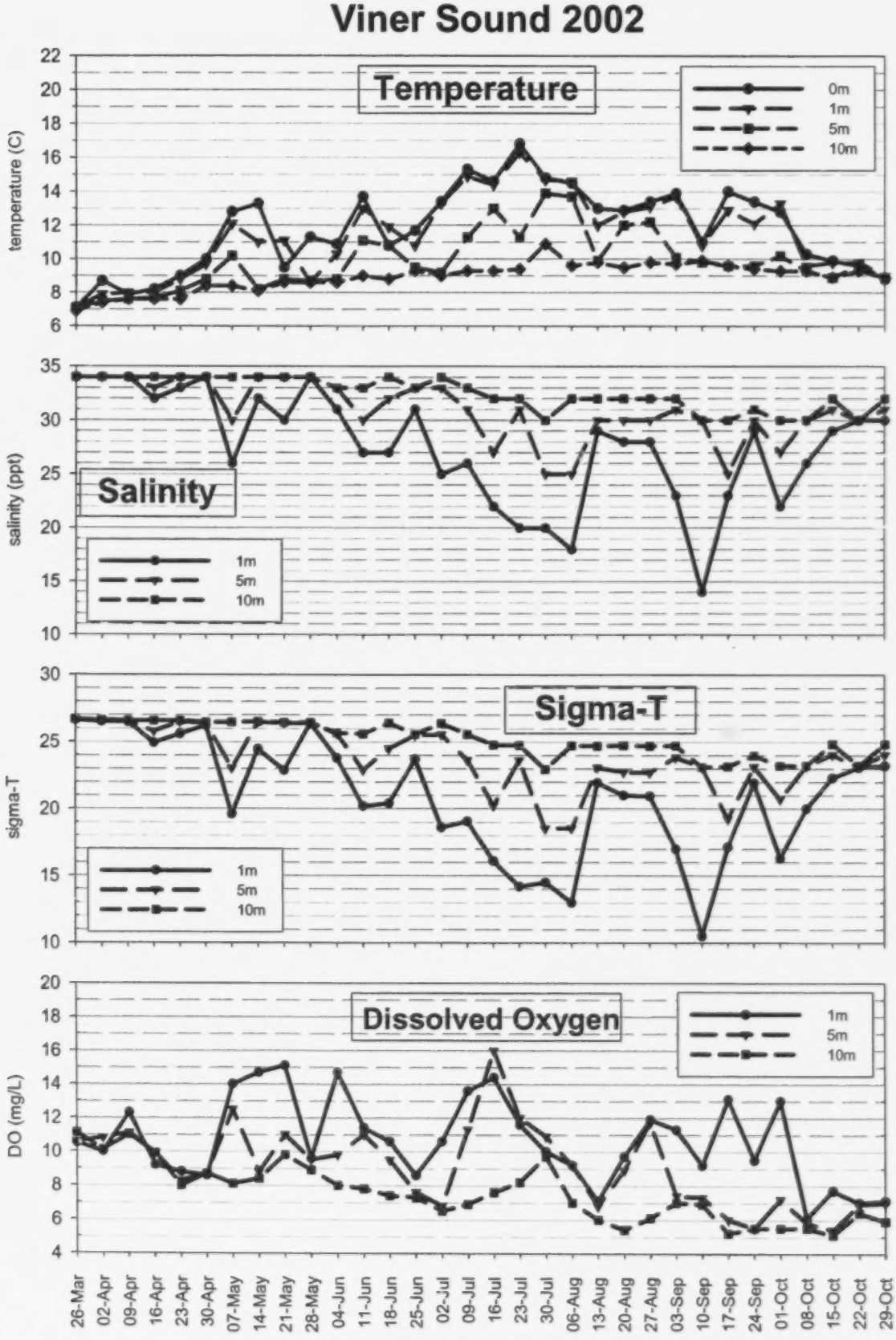

Figure 38: Environmental monitoring data for Viner Sound.

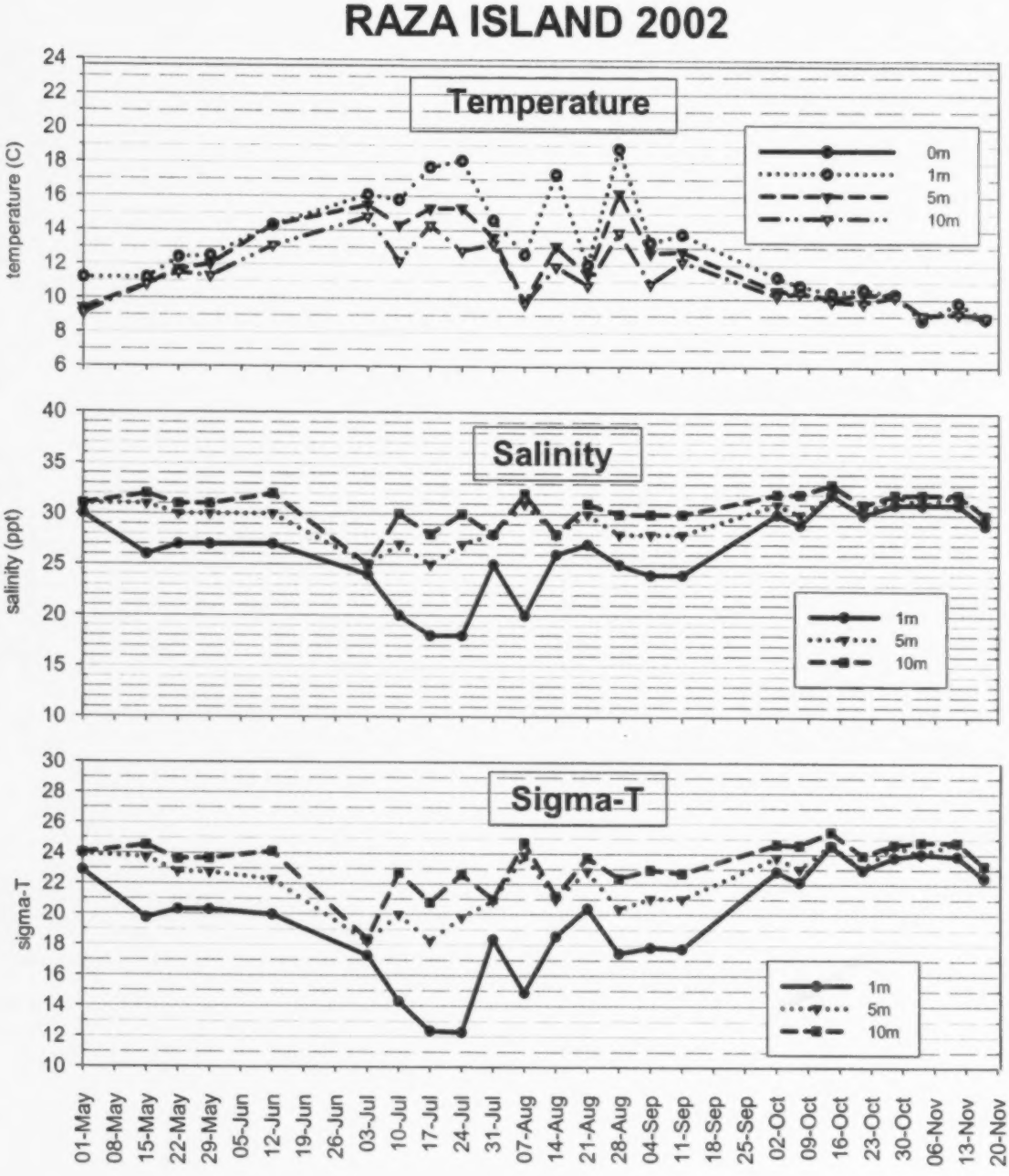

Figure 39: Environmental monitoring data for Raza Island.

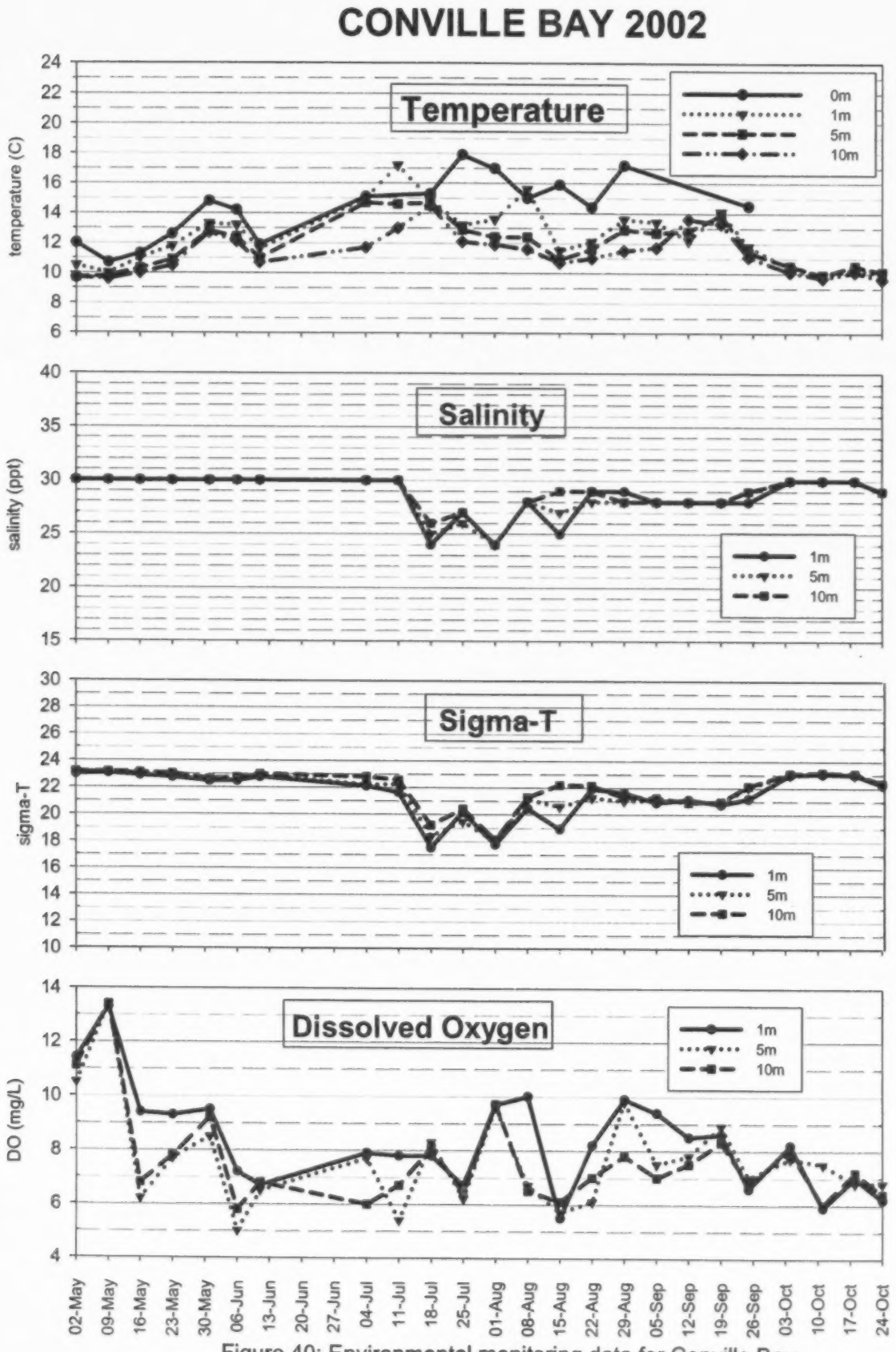

Figure 40: Environmental monitoring data for Conville Bay.

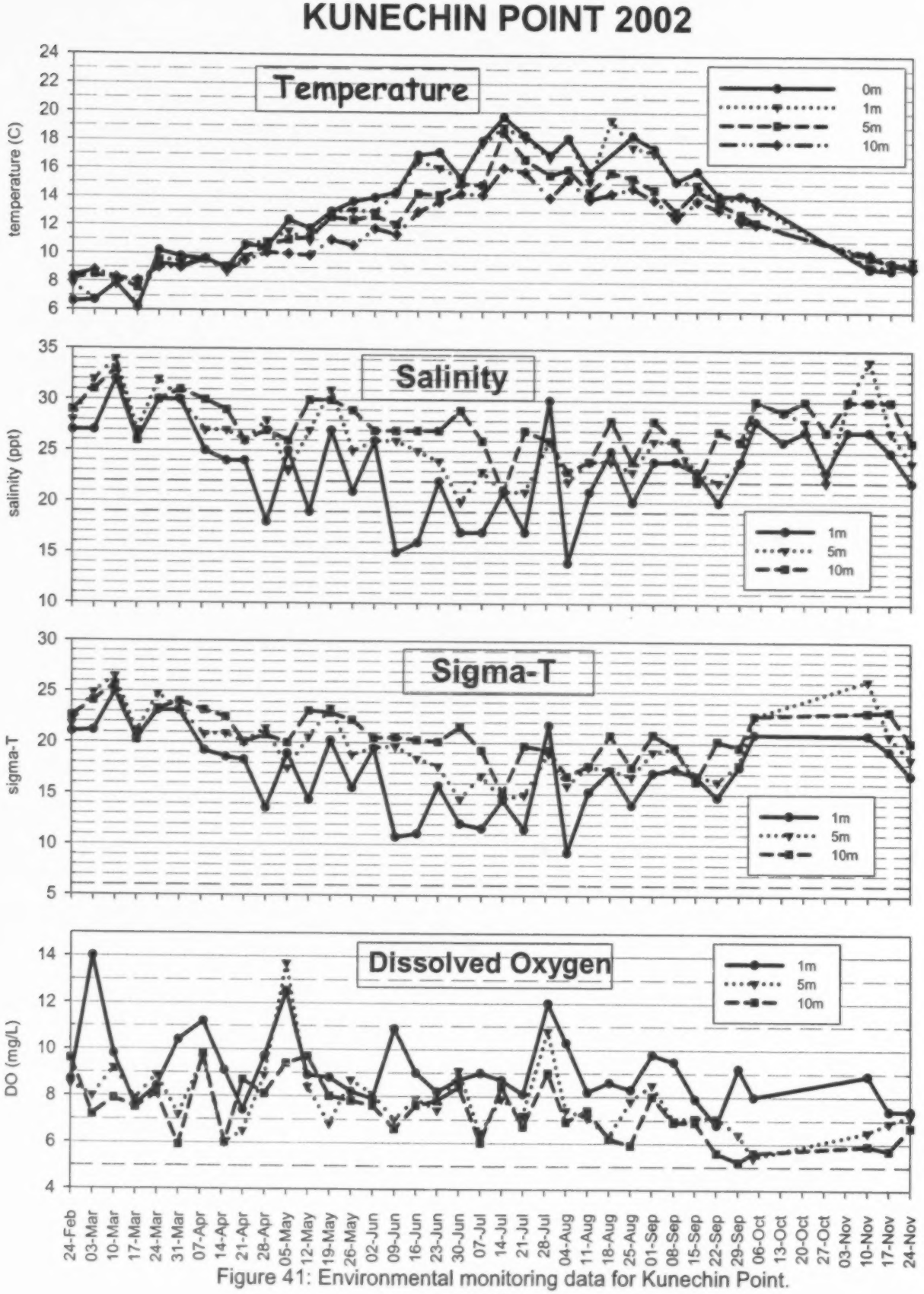

Figure 41: Environmental monitoring data for Kunechin Point.

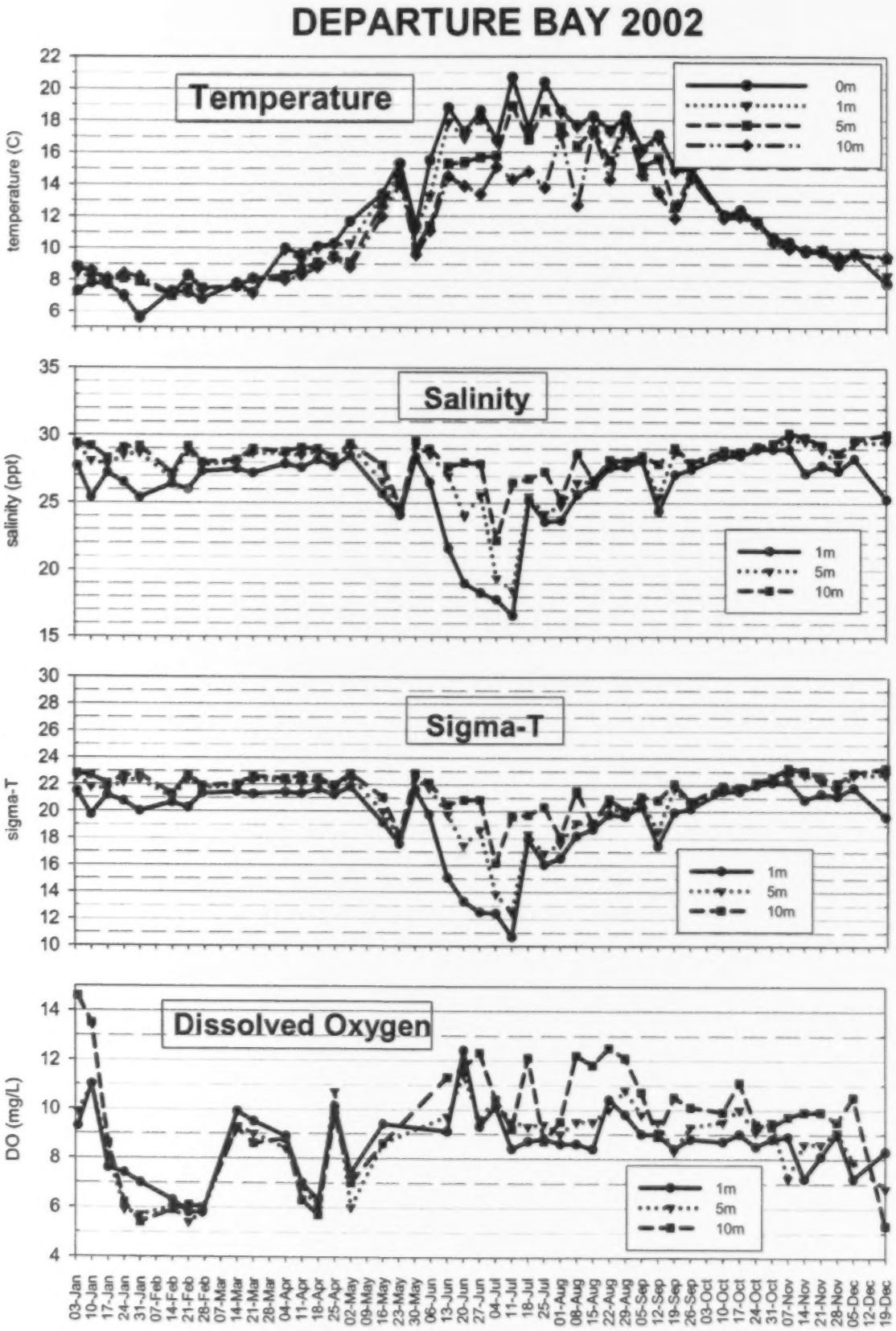

Figure 42: Environmental monitoring data for Departure Bay.

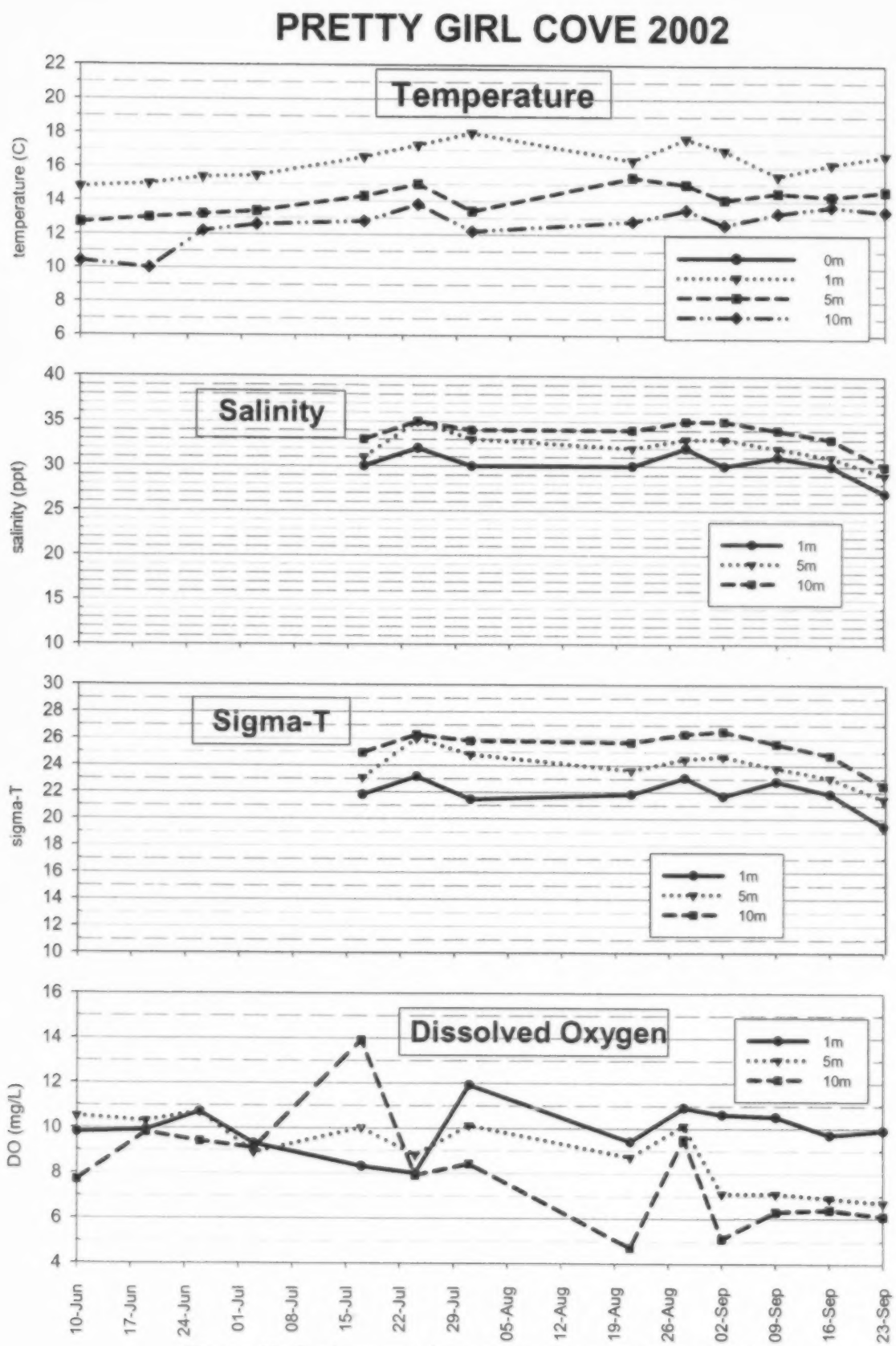

Figure 43: Environmental monitoring data for Pretty Girl Cove.

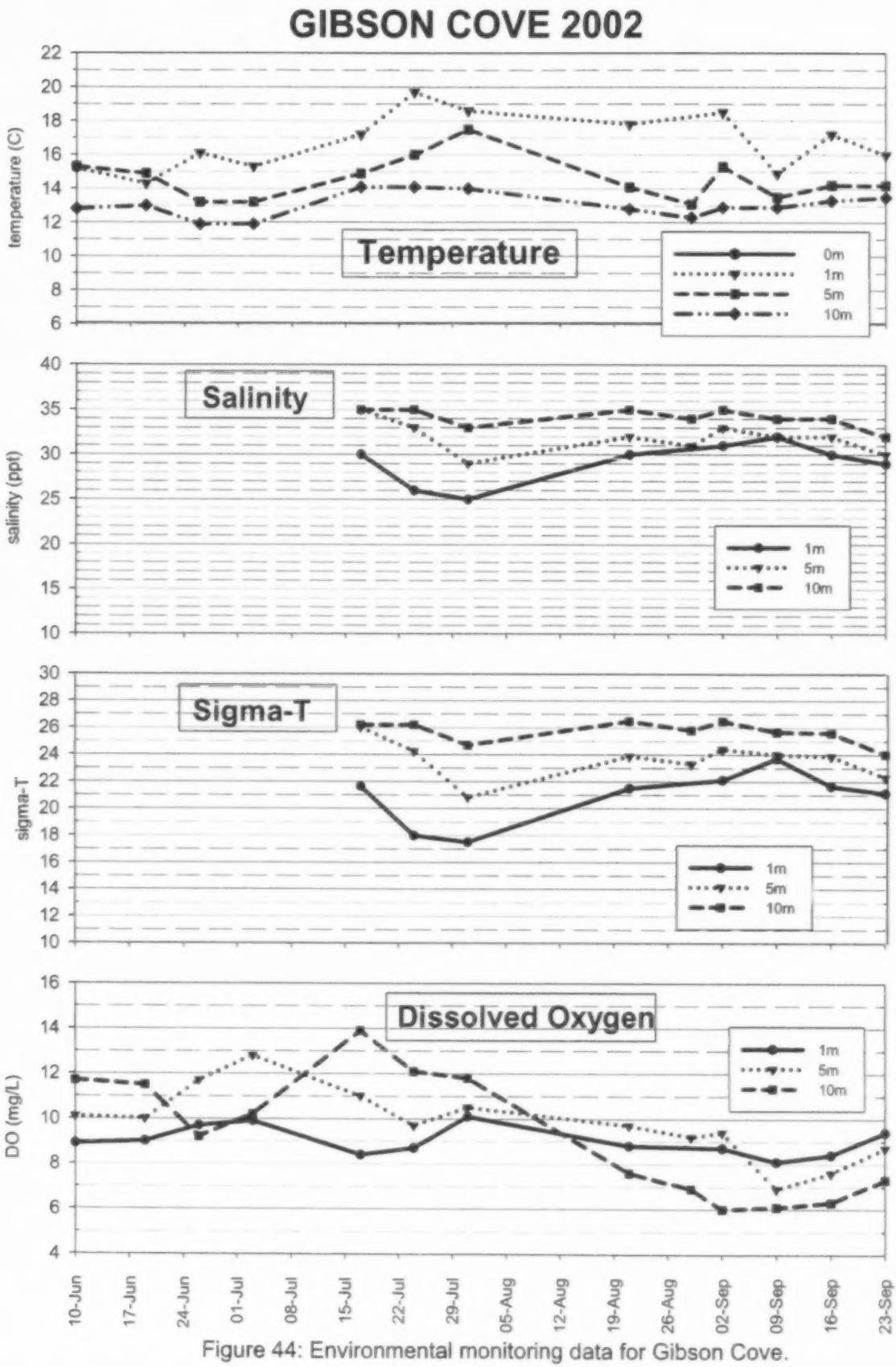

Figure 44: Environmental monitoring data for Gibson Cove.

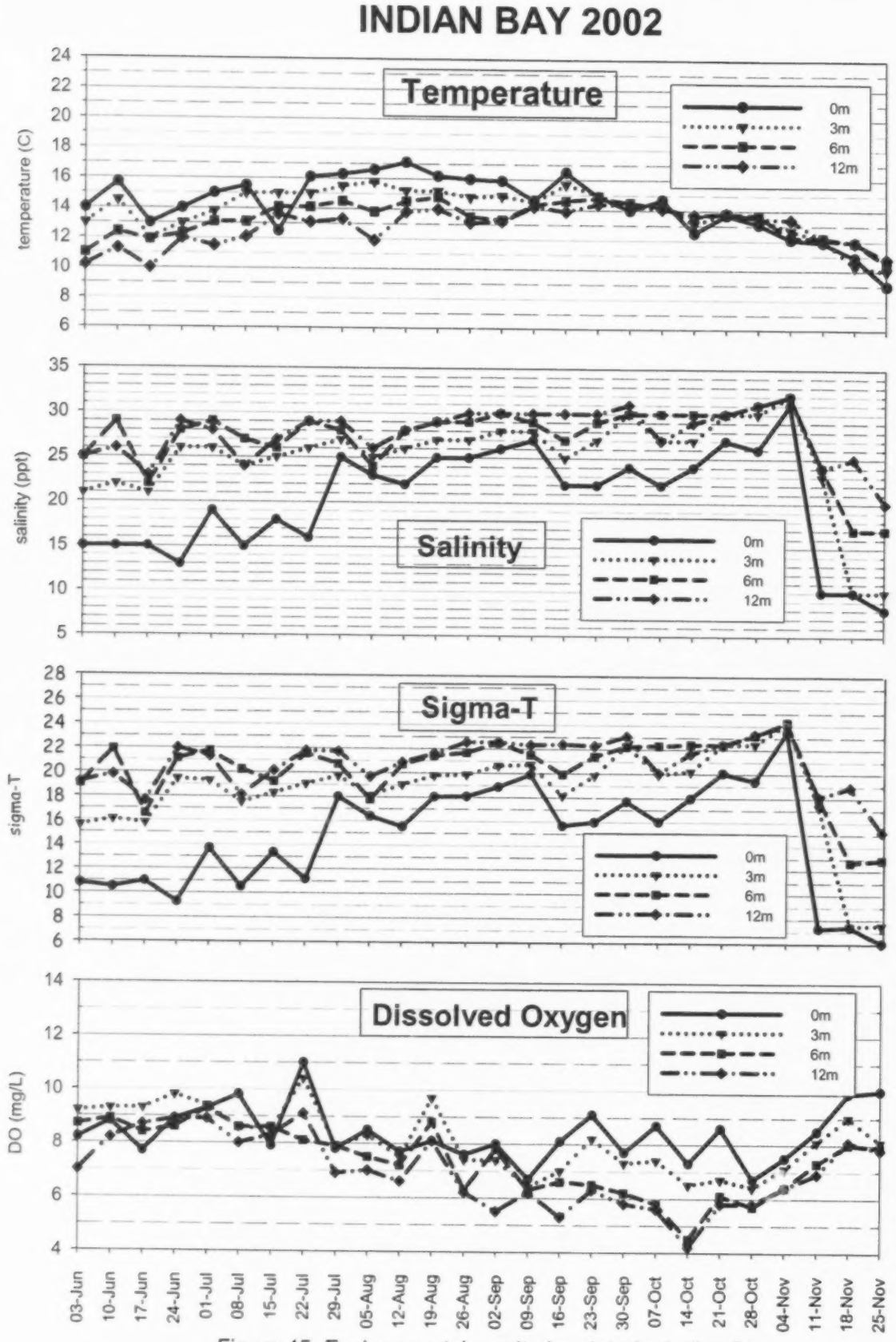

Figure 45: Environmental monitoring data for Indian Bay.

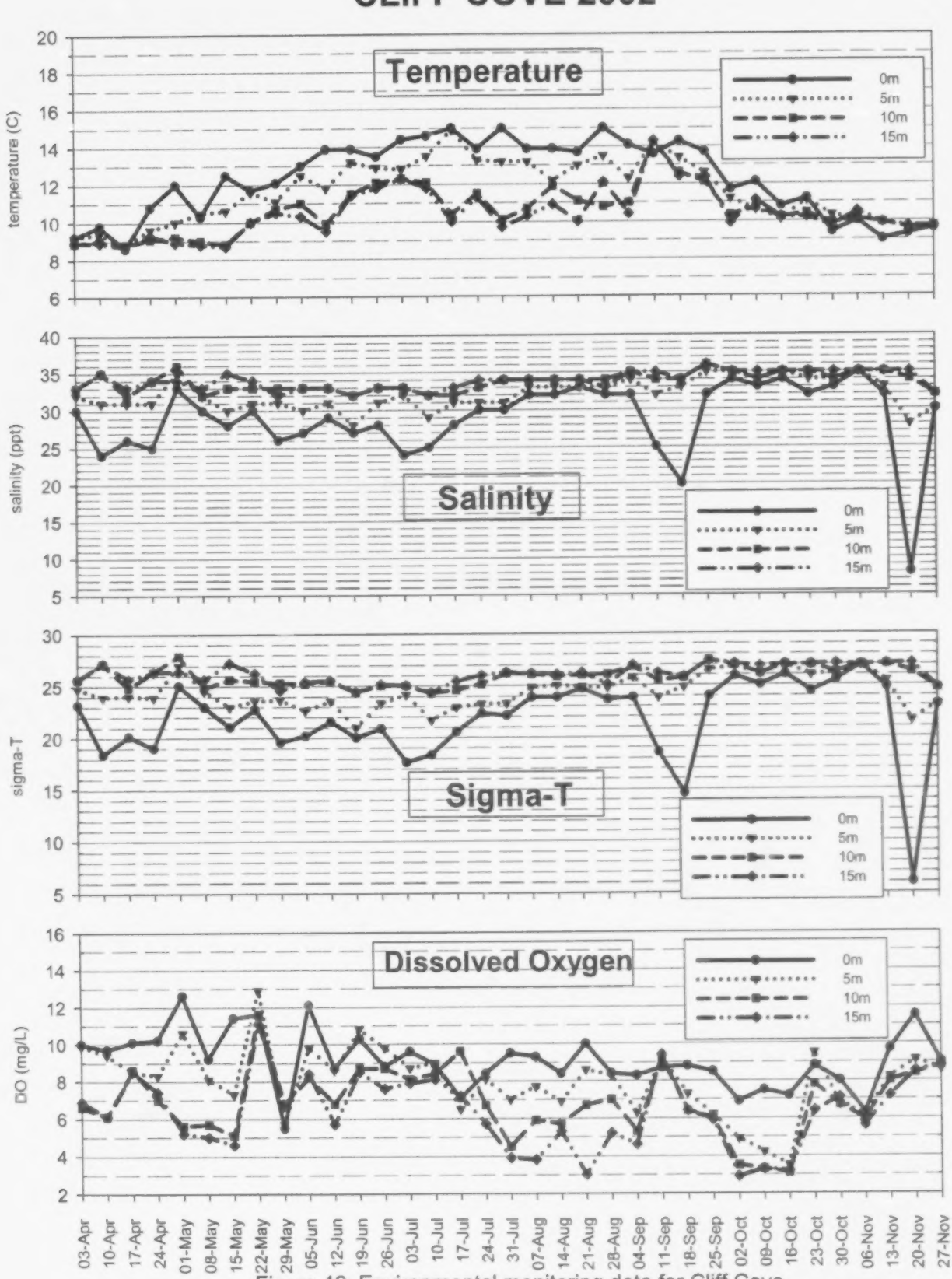

Figure 46: Environmental monitoring data for Cliff Cove.

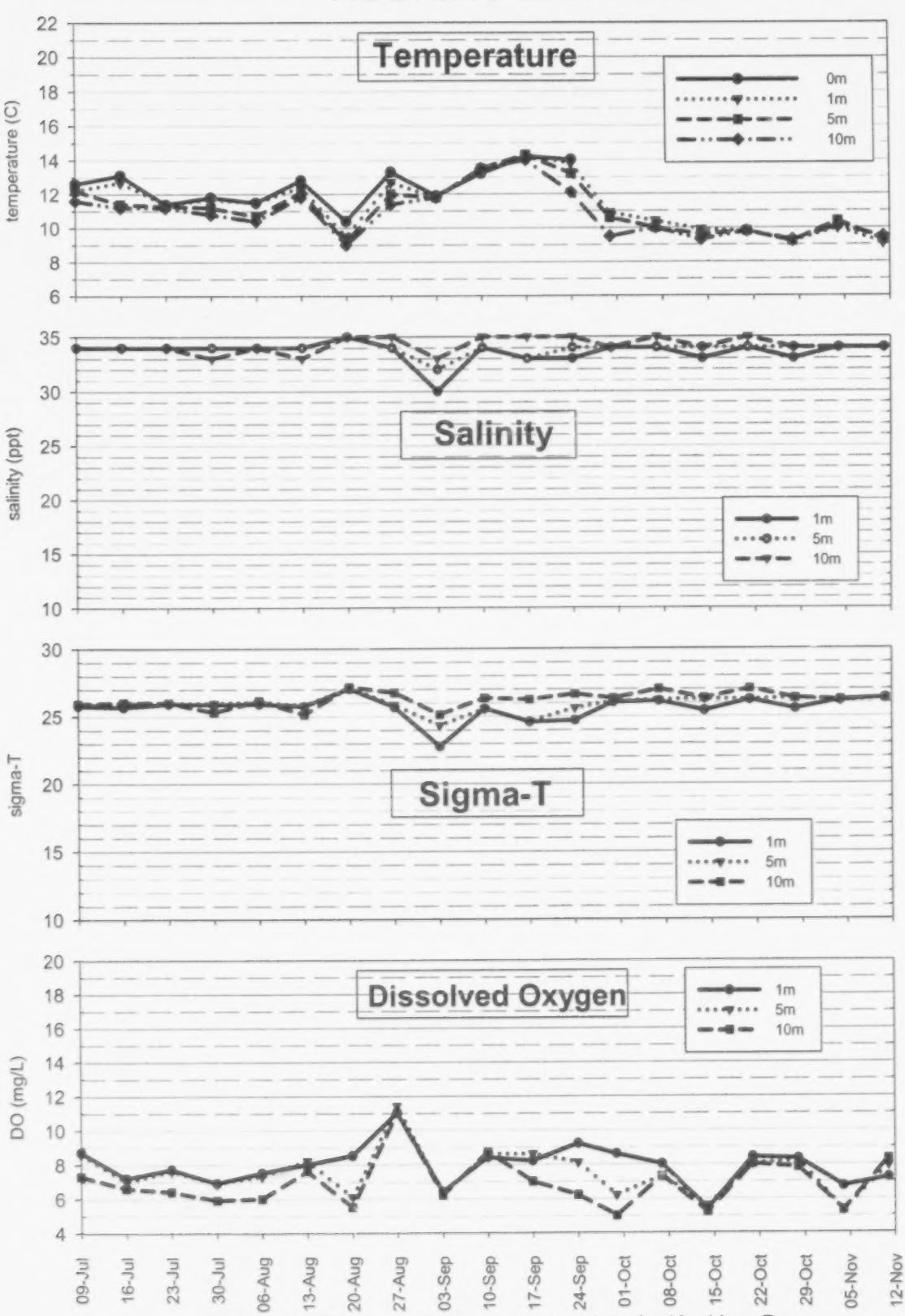

Figure 47: Environmental monitoring data for Koskimo Bay.

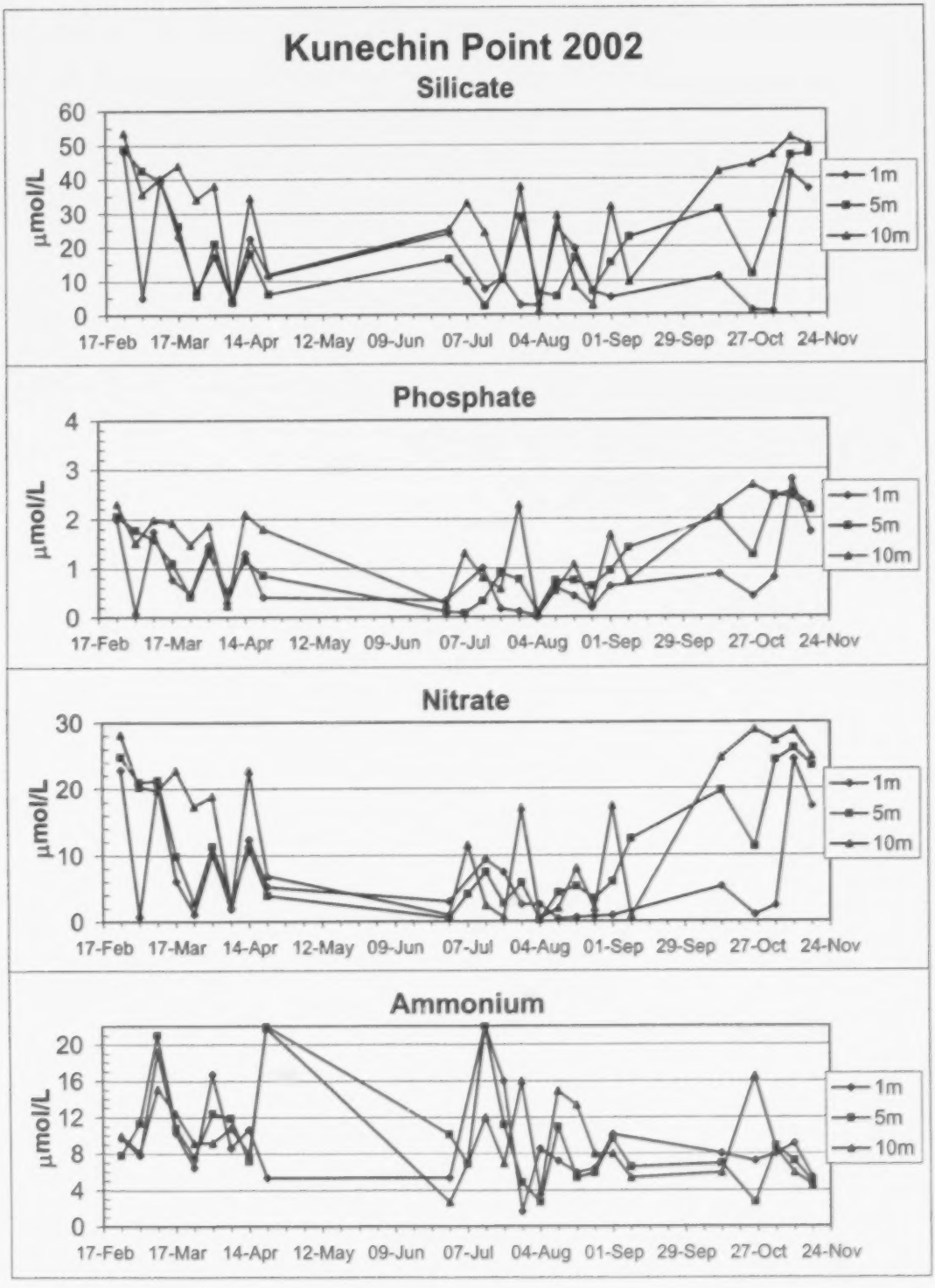

Figure 48: Nutrient concentrations in Kunechin Point samples.

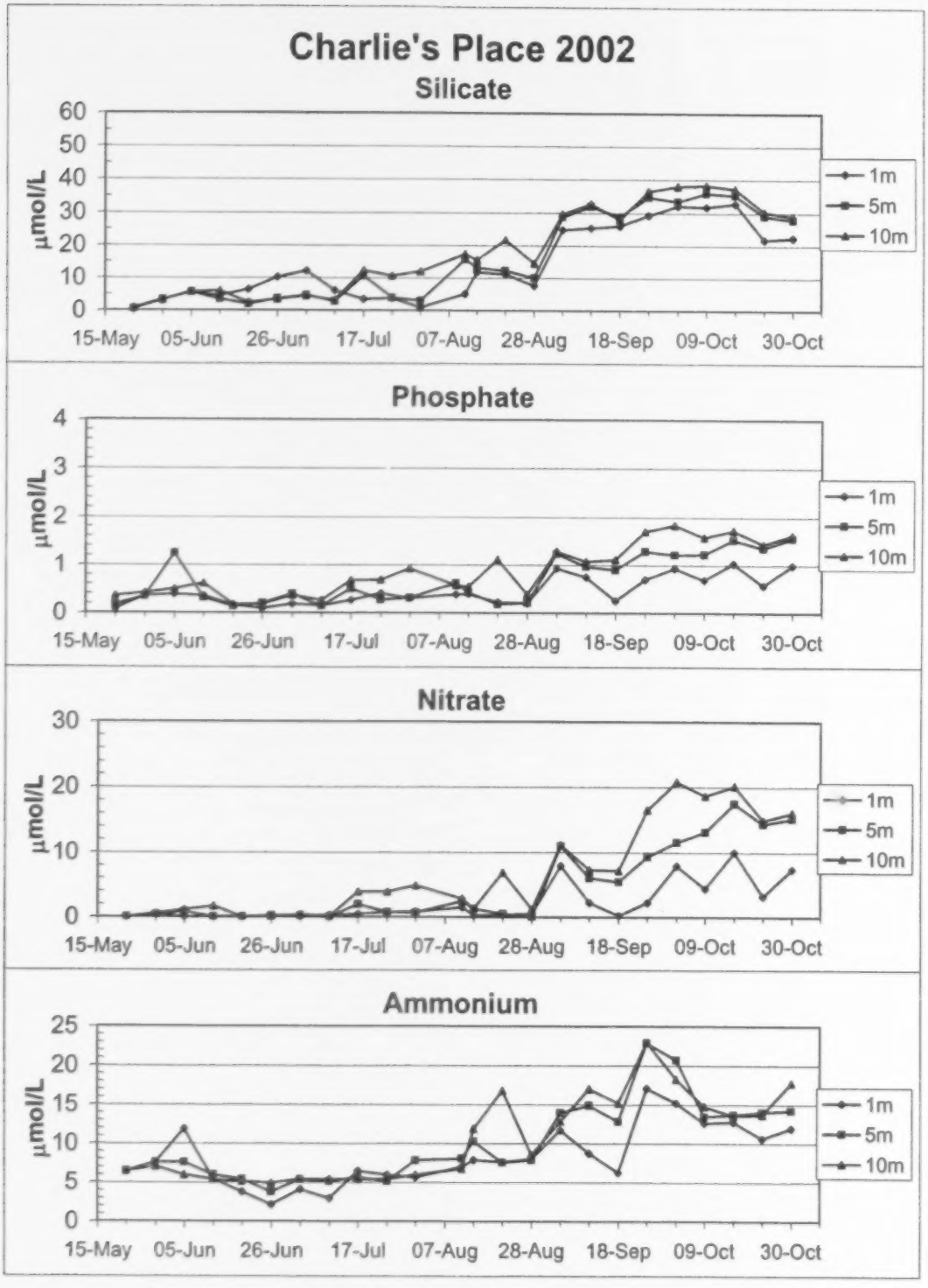

Figure 49: Nutrient concentrations in Charlie's Place samples.